



TELEPHONE NUMBER:
3617 CENTRAL (3 lines).

**Established in
ENGLAND, 1859.]**

Registered as a Newspaper.

Published Weekly at 42 CANNON STREET,
LONDON, E.C. 4.

TELEGRAPHIC ADDRESS:
"CHEMICUS, CANNON, LONDON."
[Charged as two words only.]

**Established in
[AUSTRALASIA, 1885.]**

No. 1,967. Vol. LXXXIX.

OCTOBER 6, 1917.

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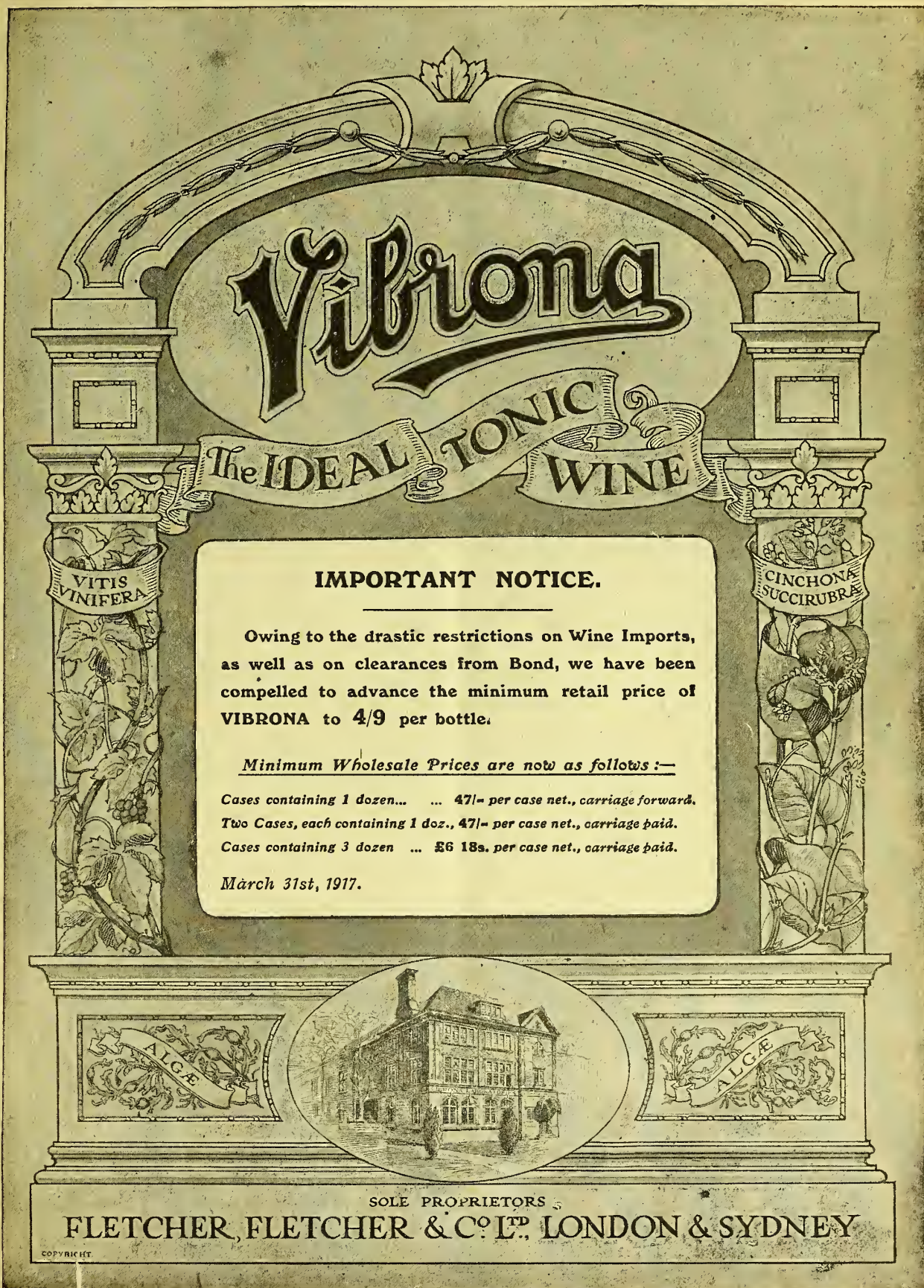
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March 31st, 1917.

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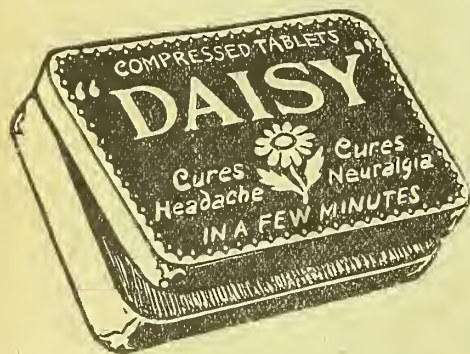
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You have already experienced a good demand for Daisy Tablets, but you know that this special Autumn "push" of ours in these great journals will bring you a volume of sales for which you ought to be specially prepared. You will therefore be well advised to take advantage of our

GENEROUS BONUS OFFER

under which, for the next fortnight, we will send you, on condition that you will agree to display one of our showcards and a pull of this striking "Sunday Pictorial" advertisement,

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Under this special bonus you make a profit of from 45% to 50% on every tin of Daisy Tablets you sell, according to the quantity ordered, and by making the modest display of tins and showcards suggested, and so linking up your store with our advertising scheme, you can make sure of lots of these highly profitable sales.

*If you have not already ANSWERED OUR CIRCULAR
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the offer is for 14 days only, and get off your letter to-night.*

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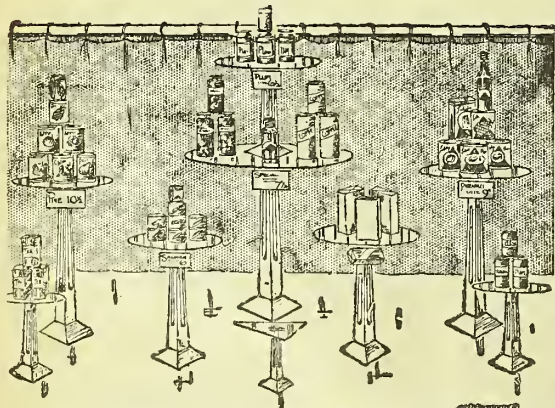


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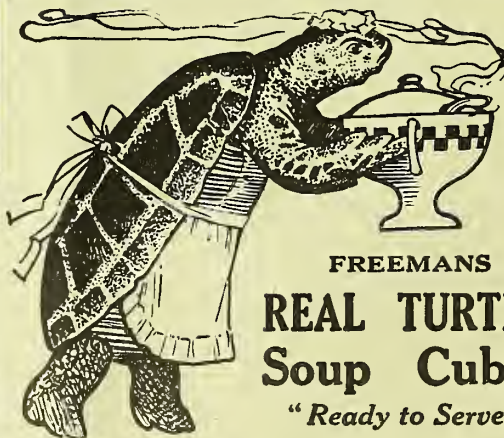
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NEW DESIGNS FOR OPEN WINDOW DISPLAYS.



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Soup Cubes**

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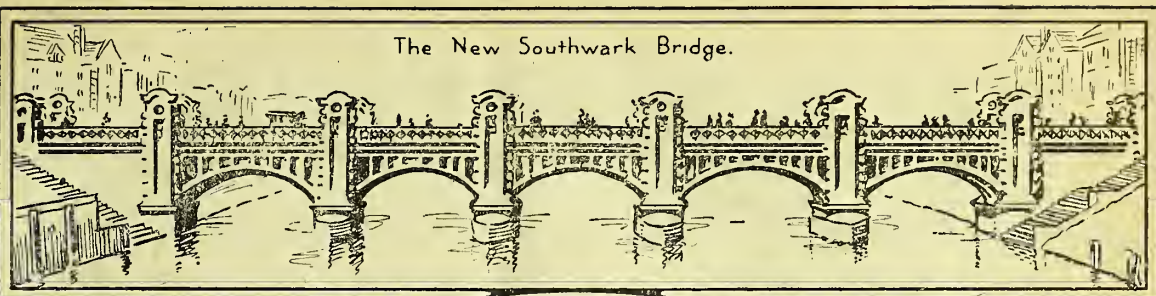
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4TH & 5TH
EDITION

Maw's Page.

NUMBER 312.

OCTOBER 6, 1917.

PAREX^{REGD.} DENTAL CREAM



THE daily toilet of the man and woman is incomplete without the cleansing of the teeth and mouth. "Parex" Dental Cream serves these two purposes at one time. Put up in collapsible tubes in beautiful cartons. "As perfect as science can make it."

7/9

DOZEN with BONUS.



HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m.

CLOSE AT 1 p.m. SATURDAYS.

SANDALWOOD OIL.WHIFFEN & SONS, Ltd., are Sole
Consignees of the**MYSORE GOVERNMENT Standard Product.**

Complies with requirements of all Pharmacopœias.

Samples can be had
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Immediately a Student passes the Preliminary he should enter upon a Systematic Course of Instruction for the Minor by registering himself as a Student under

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There are Special Courses for the MAJOR, MINOR, PRELIMINARY and APOTHECARIES' HALL EXAMINATIONS, etc.

The following are extracts from three letters recently received:—

1. Students who wish to pass the Minor economically and quickly should follow my example, i.e., take Mr. Wills' Postal System, and then run up to the College for a short time to finish off. I did this and passed easily. I experienced no difficulty after the thorough systematic course I had been through under the postal.
2. I am writing to tell you how much I have appreciated your postal lessons. Sorry I cannot continue them as I have joined the Army. Should I return safely I will place myself again in your hands as I can see by the past it would be impossible to do better. Your lessons are a pleasure to read and very comprehensive.
3. You will be pleased to hear that I have passed the Irish Examination held this month. 30 candidates presented themselves and only 9 passed, and I am one of the fortunate ones. Thanks to your lessons, &c.

For Prospectus, Call, Write, or 'Phone The Principals, Westminster College, 190 Clapham Road, S.W.9.

LONDON COLLEGE OF PHARMACY

Principal - - - HENRY WOOTTON, B.Sc. (Lond.)

ENTRIES CAN NOW BE RECEIVED FOR THE FOLLOWING COURSES:

MINOR REVISION COURSE - Aug. 15**MINOR COURSE - - - Sept. 24****APOTHECARIES' HALL COURSE - Aug. 15***Separate Class Rooms & Museum for Lady Students.*

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"Systematic, progressive, thorough."*A successful Student's apt description of the wonderfully organised***POSTAL COURSES**

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Prelim., "Hall," or Minor.

*Full particulars sent on application to Secretary.***ARE
YOU****PREPARED FOR****WINTER****WITH****Labels and General
Advertising Matter**If not, write us at once
—we can let you have**ALL YOU REQUIRE**Samples to Colonies 10/6 for full set,
which amount we credit for £5 order.**THOMAS WAIDE & SONS,**

Chemists' Printers,

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F. DARTON & CO. MANUFACTURING OPTICIANS,

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FOR ALL KINDS OF MAGNIFIERS, especially those used for Medical, Dental and Ophthalmic purposes.

We have just completed the furnishing of our factory with up-to-date machinery for the rapid and accurate manufacture of the above, and can guarantee a promptness in delivery second to none of any quantity.

We invite inquiries for quotations and samples.

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In this most necessary branch of our business we have the latest improved electrical machinery. A special staff of experienced workmen entirely devoted to the execution of Repairs and dispensing of Oculists' Prescriptions enables us to dispatch all commissions by return mail.

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FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley, Brunak, N.-F. Cocoa, Biscuits, Soup, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

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We issue a list of WHOLESALE HOUSES who keep above in stock; if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

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All advertising matter—Booklets, Window Displays, Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.



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FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY CO., LD.

The Largest Makers in the Kingdom,

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Prepared in strict accordance with the Formula of the British Pharmacopoeia. (Wholesale only)
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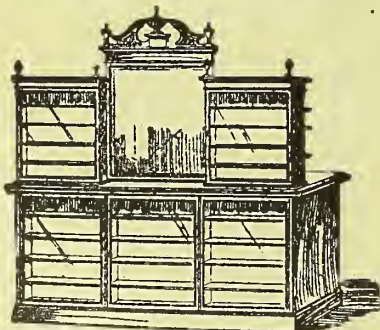
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Shopfittings

of every kind for large
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*We invite Chemists to
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specialise in the manufacture of
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Shaving Stick Cases

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for Powder Tins, Cruets,
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in any of the following metals:
Brass, Copper or White-metal
(nickel or silver-plated),
Aluminium and Jewellers' Metal
(Tombac).

*During the continuance of the War we cannot
undertake orders to make any of the above goods
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manufacture of which the use for commercial
purposes has been prohibited by H.M. Govern-
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some articles in stock which were made before
the prohibition was issued.*

ELEY BROTHERS, Ltd.

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We have introduced a highly attractive line of taper-necked **English-wickered** bottles of

PRICE'S Extra Triple Eau de Cologne

(as illustrated). These bottles of excellent perfume are packed ready for dispatch, in neat wooden boxes, and represent a most popular line for the Chemist's counter. Price's Eau de Cologne is also put up in other sizes and packings.

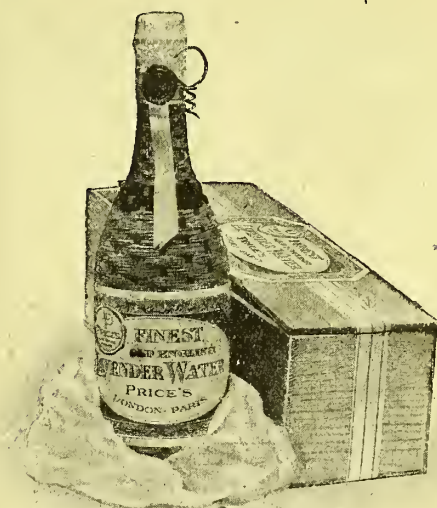
Terms and quality-sample on application.
For Home, Hospital and Trenches.

Another attractive line now available in our new taper-necked **English-wickered** bottles is

PRICE'S Old English Lavender Water

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For Sick, Convalescent and Fit.



PRICE'S,
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War Prices Protected.

The cutting of special War-increases is an insidious danger from which

RETAILERS OF
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"CRYSTAL PALACE" MARKING INK

ARE PROTECTED.

The increase is but small, $\frac{1}{2}$ d. a Bottle retail, either size, heat or non-heat. Every other domestic commodity has risen more.

The 1/- size protected at 8d. is now protected at 8 $\frac{1}{2}$ d.

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THE PROTECTED
RETAIL PROFIT IS

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A good minimum profit on the Marking Ink which will always make new Customers.

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SEED DRESSING.

CARBOLIZED SEED DRESSING or FARMERS' FRIEND.

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LIQUID SEED DRESSING, NON-POISONOUS.

Guaranteed Genuine Sulphate of Copper.

Guaranteed Agricultural Strengths.

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HENNA SHAMPOO



ON THE UP GRADE because they are so simple to apply, so neat, & so commercially good.

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SELF-FIXING BOTTLE CAPS

are daily rising in general estimation. Details from

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F. M. RUDD,
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**GENUINE AMERICAN
PEPPERMINT OIL**

*"Columbia" Natural
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Re-distilled.*

Finest qualities for Druggists,
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Sole Consignees in United Kingdom—
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LET US SHOULDER YOUR TOOTH PASTE TROUBLES

We can handle
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Your own TITLE
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IN FACT

Your own Special Line at the
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WAXES

PETRO. JELLY

LIQUID PARAFFIN

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WHITE OILS

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Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow
and golden, for pharmaceutical
purposes.

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Packed in barrels, kegs, and smaller
packages according to requirements.

Inquiries are solicited for this article
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buyers may rely that for quality and
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Other Grades

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Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle.

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THE FINEST BRITISH LANOLINE YET PRODUCED

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Decorated Tin Boxes & Canisters

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DECOLTENE
The liquid hair remover



Dinkie
The Dainty Deodorant

The intelligent depilatory.
Simple, safe and effective.
Pleasant and harmless. In-
valuable during the décolleté
vogue. Daintily packed.

An attractive line that
enjoys good sales. A grease-
less Cream, that takes the
odour out of perspiration.
Daintily packed in opal jars.

Ask your wholesaler.

Both articles largely advertised.

SATISFACTION GUARANTEED OR MONEY BACK.

TRADE TERMS.

DECOLTENE. Advertised 3/9
and min. Retail price

Trade 30/- per doz.

DINKIE. Advertised and 2/6
min. Retail price

Trade 20/- per doz.

5% cash with order.

Carriage paid on £1 lots.

Particulars on request.

ROBARTES, LTD.,

128 JERMYN STREET,

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Telephone . . Gerrard 3612.

NEW CROP <1917>
FRENCH
OTTO OF ROSE

Guaranteed pure under analysis by
Mr. Ernest J. Parry, B.Sc., F.I.C., F.C.S.
<to whom samples of our deliveries
may be submitted at our expense>.

Distilled by Gattefossé et Fils

*who indisputably distil the largest
quantity of Otto of Rose in the whole
of France in their various distilleries
at Golf Juan, Montchat, etc.*

Full particulars from the Sole Consignees
for the British Isles and the Colonies:

FORWOOD BROS. & DONALDSON L^{TD}
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Telegrams : "Forbrodona, Finsquare,
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" " 6077.

"LESCOL" FLORAL PERFUMES

NOTICE !

We strongly advise Chemists before purchasing their Christmas lines to send us particulars of their requirements, and complete Price List will be sent, or one of our representatives will call with full set of samples when in their vicinity.

We are holding a large stock at remunerative prices

LESCOL PERFUMERY CO., Lomond Grove, Camberwell Green,
LONDON, S.E. 5.

Telephone: 810 HOP.

(Proprietors: The London Essence Co.)

Telegrams: "VANILLIN, CAMBER, LONDON."

TITTERTON'S CELEBRATED HAIR BRUSHES

**GOOD
PROFITS**
are made by selling
**TITTERTON'S
CELEBRATED
BRUSHES**

(Hair, Tooth, Nail & Shaving
Brushes).

They have a world-wide reputation for excellence of quality, and perfection of workmanship. Should be stocked by all Chemists desiring to give the public the best value for money.
Illustrated Catalogue on application.

TITTERTON & HOWARD,

Brush Manufacturers,

8 & 10 Great Titchfield St., London, W.1.

9d



Make your
old Hat a
new one.

*In bottles, 9d.
each, in separate
neat cartons, with suitable
brush.*

These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.

NO GLOSS. NO POLISH.

On the P.A.T.A.

WRITE FOR TERMS, PATTERNS,
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"Luton" HAT DYE

**WHITAKER & CO., COLOUR WORKS,
KENDAL, ENG.**

London Depot: 60-62 Clerkenwell Road, E.C.

"Glossy" Series supplied if desired.

Special Non-Inflammable Series for Export.

Est. 1878
Telegraphic Address: "Dullette Kendal." Telephone: No. 214.

"SANOID" HOT WATER BOTTLE COVER.

(GERRARD'S PATENT).

WOOL-LINED,
QUILTED,
RETAIN THE HEAT



COMFORTABLE in USE
GIVE SATISFACTION
WEAR WELL

IN THREE COLOURS, PINK, RED AND BLUE.

8×6	10×6	10×8	12×6	12×8	12×10	14×8	14×10	14×12
7/9	7/9	9/-	9/-	9/-	11/6	11/6	13/6	13/6 doz.

CUXSON, GERRARD & CO., LTD., OLDBURY

For the **ATTENTION** of the
DISCRIMINATING CHEMIST

LABELS
IN BLACK
AND COLOUR,
BANDS,
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THE Distinctive Quality of
our Printing & Stationery
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BACTOPEPTONE

Acknowledged to be the best and most reliable Peptone for Bacteriological use.

DIASTASE	HÆMOGLOBIN
PANCREATIN	OX GALL
PEPSIN	SODIUM CHOLATE
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ORGANO-THERAPEUTIC PRODUCTS
OVARIAN, THYMUS & THYROID SUBSTANCES, &c.

Address inquiries, orders, &c., to
MAY & BAKER, LTD., BATTERSEA, LONDON, S.W.

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Wholesale & Export Drug Merchants,
— Manufacturing Chemists —

HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A. Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/6
* " " " " " "	1/2	10/-
* " " " " " " bottles in " cartons	1/6	12/-

*Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, } 13/6 per dozen
especially suitable for use in Eczema } boxes net.

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.



Don't Use Cheap and Nasty Corks !

I am offering the **Finest White Corks** as above.
Packed in 6-gross bags.
Four sizes, separate bags
(2 dr., 1 oz., 4 oz. & 8 oz.),
5/6 per bag post free.

THOS. SWALES,

SUNDRIESMAN,
24 Butts Court, and 89 Albion Street,
LEEDS.

SCIENTIA



DILIGENTIA

LYSOL

〈SURGICAL ZOTAL〉

The Ideal Germicide & Antiseptic.

Burgoyne's Lysol is a pure cresol preparation containing fifty per cent. of absolute Cresylic Acid, and is perfectly neutral.

NON-CORROSIVE AND
CLEANLY IN USE.

SUPPLIED TO THE
LEADING HOSPITALS.



Packed in 4 oz., 8 oz., 16 oz., and 32 oz. Bottles.

Burgoyne, Burbidges & Co.

LTD.

EAST HAM ————— LONDON, E.

Telegrams : "Zotalene, 'Phone, LONDON."
Telephone : EAST HAM 686 (four lines).

BISHOP'S NATURAL FRUIT SALINE

THIS preparation, our latest Saline, made by our Special Process without SUGAR or SACCHARINE, is an unique Saline. It is strongly effervescent and delightfully palatable, making a bright, refreshing draught, which acts as a mild but very thorough aperient, antacid and liver stimulant.

BISHOP'S NATURAL FRUIT SALINE is taken regularly with pleasure and safety by men, women and children all the year round. This steady demand makes it a profitable winter line.

The Wholesale Price is 15/- per doz. Discount 10 %, and carriage paid on £5 lots.

The P.A.T.A. Retail Price is 1/9 per bottle.

This ensures a profit of 7½d. a bottle to the Chemist.

In 8-oz. P. S. Bottles with striking Litho. Cover.

PREPARED ONLY BY

ALFRED BISHOP, Limited

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TIN BRITISH MAKE FOIL

Highly polished foils—printed, lacquered, embossed or plain. Guaranteed free from lead for tobacco, cigarettes, food-stuffs, etc. In sheets or reels—large or small quantities

Also collapsible tubes in pure tin, pure lead or lead-coated with tin for rubber solution, artists' colours, tooth pastes and other toilet preparations.

SHAVING STICK CASES.

SCREW-CAPS, ETC

Venesta Ltd

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LONDON

1917

We can deliver at once New 1917
HIGHEST QUALITY NORWEGIAN
MEDICINAL NON-FREEZING

COD LIVER OIL

PROMPT DELIVERY  LOWEST PRICES

REGISTERED TRADE MARK

ISAAC SPENCER & Co. (ABERDEEN) LTD. ABERDEEN

Shaving Sticks.

ALL BRITISH.

Good Design and Quality.

"AVONA," Cartoned, 30/- gross.

"CREAM OF ROSES," Decorated
 Tin in four colours, Rose
 design on Cream ground,
 60/- gross.

**ALUMINIUM HOLDER AND FINGER
 PROTECTOR . 90/- gross.**

TABLET, Cartoned . 30/- gross.

Sample of each for stamps 1/6.

STOKES & CO., LTD.

31/35 Lower Castle St., BRISTOL.

FOR LARGE BUYERS.

Vanishing Creams

Bulk or Packed.

Also Brilliantines, Toilet Paraffins,
 Lime Creams, Shaving Sticks,
 Tooth Powders, Dental Creams,
 Shampoo Powders, and All
 Toilet Goods.

LOW PRICES for
HIGH QUALITY.

STOKES & CO., Ltd.

Manufacturing Chemists and Perfumers,
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THE CHEMICAL FEATURE OF THE WAR ACETYL-SALICYLIC ACID

The "M. & J." Brand—
Our Own Manufacture



With an uniform pearly-white fine crystalline flake—a melting-point of 135°—137° C.—absolute freedom from uncombined acids—100% therapeutic activity, we unhesitatingly affirm that the "M. & J." Acetyl-salicylic Acid is the finest "Aspirin" manufactured in Britain. We confidently invite comparison with the original "Bayer" or any other brand.

Extract from THE CHEMIST AND DRUGGIST: "ACETYL-SALICYLIC ACID.—Menley & James, Ltd., are now manufacturing this chemical at their works in Camberwell, which are managed by a competent chemical engineer. The aspirin is of a higher melting-point than is given in the British Pharmacopœia, 133° to 135°, which is now known to be 2° lower than the pure acid and the aspirin made by Bayer. Menley & James's aspirin is from 135° to 137°, and is perfectly destitute of acetic odour—in fact, is a stable chemical, and does not induce the gastric acidity which is much complained about, and which is believed to be due to the presence of homologous acid, from which the Menley product is free."

WE INVITE YOUR INQUIRIES FOR CRYSTALS OR TABLETS IN **LARGE**
OR **SMALL** QUANTITIES FOR **IMMEDIATE** OR **FORWARD** DELIVERY.

MENLEY & JAMES, Ltd., Manufacturing Chemists, "Menley House," Farringdon Rd., **LONDON, E.C.**
Contractors to H.M. WAR OFFICE **Works: CAMBERWELL, LONDON, S.E.**

Good Printing

SELLS YOUR GOODS
WITHOUT AN EFFORT

We specialise in
GOOD PRINTING

and will be pleased
to quote for your
requirements.

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Alt. Harrison & Sons

GENERAL PRINTERS,
224 BURLEY ROAD, LEEDS

PASTILLES (Pharmaceutical Quality).

Antiseptic Throat	} 4-lb. free tins,
Glycerine	
Glycerine and Black Currant	
Eucalyptus and Menthol	
Etc. Etc.	
	2/- per lb.

CAPSULES.

Per 1,000.

Boxes of 24.

Santal Oil, 10 m. ...	98/-	... 31/- doz.
" " 10 drops	72/-	... 23/6 doz.
Copaiba Balsam 10m.	14/-	Boxes of 36 9/- doz.

SACCHARINE TABLETS

$\frac{1}{2}$ gr. 330 in 1.

per lb.	120/-	} Cash with Order.
100's	22/6 doz.	
200's	44/- doz.	
500's	106/- doz.	
1,000's	210/- doz.	

JULES DENOVAL & CO.,
Carlton Works,
ASYLUM ROAD, S.E. 15.

Important Notice

AS HAS BEEN ANNOUNCED

in the Protected List of THE P.A.T.A.
the MINIMUM RETAIL SELLING PRICE of

Kutnow's Powder

IS NOW $2/9$ PER BOTTLE (FACE VALUE)

This yields a considerable increase of profit to chemists, nevertheless Messrs. KUTNOW are keeping to their wholesale price, as hitherto, in spite of the enormous rises in the cost of all the materials, bottles and everything else in connection with the manufacture of KUTNOW'S POWDER. In view of the above facts, Messrs. KUTNOW trust that both the wholesale and retail trade will co-operate with them in creating a still greater demand for KUTNOW'S POWDER, and that no substitutes for KUTNOW'S POWDER will be offered to the public in future.

What The Trade Think A SENSIBLE ADJUSTMENT

The general opinion of the Retail Trade was graphically expressed (when the intended change was announced) in one word—"GOOD!" As the new arrangement is so strongly endorsed by the Trade, Messrs. Kutnow will appreciate the co-operation of the Trade by their carrying a good stock of Kutnow's Powder and making a Window Show of it. Please fill in the adjoining coupon.

SEND THIS COUPON FOR SHOWCARDS & COUNTER BILLS

To S. KUTNOW & CO., Ltd.,

41 Farringdon Road, London, E.C. 1.

Please send me Showcards and Counter Bills, carriage paid.

NAME.....

ADDRESS.....

"Chemist & Druggist," Oct. 6, 1917.

S. KUTNOW & CO., Ltd., 41 Farringdon Road, London, E.C. 1.

PURE DRINKING WATER.



The Pasteur Chamberland Filter.

OFFICIAL GOVERNMENT
STATEMENT:

Wherever the **PASTEUR
FILTER** has been applied,
TYPHOID FEVER has
disappeared.

WRITE FOR LIST B.

SOLE MAKERS:

The British Pasteur Chamberland Filter Co.
5 WHITE STREET, FINSBURY,
LONDON, E.C. 2.

LIQUID GLUCOSE

SO₂ Free.

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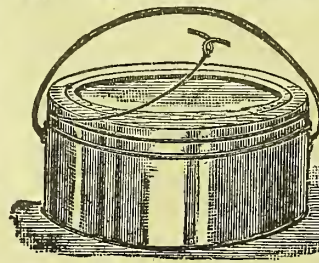
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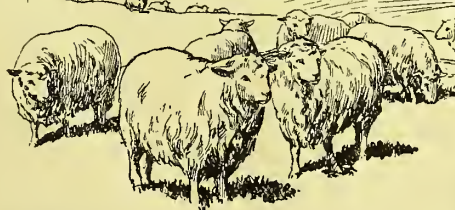


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Minor Examination.

We have received from the Registrar of the Pharmaceutical Society the following list of persons who were granted Minor certificates at the recent examinations held in London and Edinburgh:

LONDON.

Alexander, W. L., Boston	Moss, Doris M., Cambridge
Booth, Alfred, Bolton	Parry, John B., Wigan
Cohen, Joe, Leeds	Popple, Grace, North Finchley
Driver, May E., Long Sutton	Prain, John S., Kentish Town
Fisher, Eva M., Stockwell	Sargent, Irene M., Brixton
Frankish, C. T., Natal	Stuart, Ellen, Camden Street
Gant, Alice M., Clapham	Swaine, A. E., Blackpool
Harris, Dorothy, Birmingham	Thomas, A. J., Brixlington
Hughes, Gwendoline, Poplar	Thompson, Louisa, Bolton
Meyrick, H. C., Aberdare	Weiss, G. F., South Tottenham
Mortimer, Jessie A. L., Chester	Williams, H., Blandudno
	Wilson, A., Tottenham

EDINBURGH.

Cairns, A., Edinburgh	Ross, D., Tain
Kerr, D., Edinburgh	Turnbull, J., Leith
Michie, J. T., Dundee	

EARLIER CLOSING FOR PRESS.—Will intending advertisers please note that until further notice all advertisements for THE CHEMIST AND DRUGGIST Coloured Supplement must be in the Publisher's hands not later than FIRST POST THURSDAY MORNING to be available for the issue published in that particular week? Owing to restricted postal deliveries it is advisable to post all communications on the Tuesday preceding the date of issue.

European War News.

Export Notices.

NIGERIA.—The "Nigerian Government Gazette," dated August 9, contains a notification to the effect that palm oil will not in future be allowed to be exported except to the United Kingdom.

Personalia.

PIONEER T. EDEN, R.E., who served an apprenticeship with Mr. Herbert Smith, chemist and druggist, Workington, has been wounded.

PIONEER G. C. GASKIN, R.E., for some years assistant with Mr. H. G. Pattison, chemist and druggist, 38 Corn Market, Derby, is in hospital in England.

PRIVATE SAMUEL ORR GIBSON, Seaforth Highlanders, has been awarded the Military Medal for bravery in the field. Private Gibson was, prior to enlistment, with Mr. S. S. Badger, Ph.C., Magherafelt, and Grattan & Co., Ltd., Belfast.

MR. F. C. BEAUCHAMP, chemist and druggist, manager for Boots, Ltd., High Road, East Finchley, has received official information that his son, Second-Lieutenant F. E. Beauchamp, of the Middlesex Regiment, is a prisoner of war at Karlsruhe.

SECOND-LIEUTENANT W. C. LAWSON, Royal Fusiliers, has been wounded by shrapnel, and is in hospital in England. He was, previous to the war, a representative of Thos. Kerfoot & Co., Bardsley Vale, Lancashire, and received his commission this year.

SECOND-LIEUTENANT J. A. EVANS, Royal Field Artillery, has been awarded the Military Cross for gallantry in action on July 31. Second-Lieutenant Evans is a brother of Mr. John Evans, Ph.C., public analyst for Sheffield, and of Captain E. Evans, R.A.M.C.

SECOND-LIEUTENANT G. R. BAYNTON, Royal Flying Corps, son of Mr. C. S. Baynton, Exchange Buildings, Birmingham, pharmacist and proprietor of a photographic business, is officially reported missing. Second-Lieutenant Baynton received his commission only recently, and had been at the Front about three weeks.

LIEUTENANT (ACTING CAPTAIN) H. C. MABEN has been gazetted captain. Captain Maben is the youngest son of Mr. Thomas Maben, of Parke, Davis & Co. He enlisted in the London Scottish early in the war, and took part in the Battle of Loos, in which he was wounded. After his recovery he received a commission, and since June 1915 has been continuously at the Western Front. He was recently mentioned in despatches.

Miscellaneous.

OIL-CAKE SUPPLIES.—Mr. H. B. Renwick has been appointed by Lord Rhondda to act as Director of Feeding-stuffs at the Ministry of Food, with the duty of organising the supply and distribution of oil-cakes and other cattle-food.

ENEMY FIRMS.—A new list of additions to the statutory list of firms of enemy nationality or enemy association with whom persons in the United Kingdom are forbidden to trade has been issued by the Foreign Trade Department. It includes firms in Argentina, Paraguay, Uruguay, Colombia, Netherlands, Netherlands East Indies, Norway, Peru, Spain, and Sweden.

LIQUOR CONTROL.—The Liquor Control Regulations made under the Defence of the Realm Act, which deal with the hours during which intoxicating liquors can be sold, prohibit treating and the giving of credit, etc., have been extended to the Hereford area. Supplemental Order (No. 2) for the same area has special reference to the sale of medicated wines (see *C. & D.*, July 15, 1916, p. 34).

CONTROL OF ACETIC ACID.—The Order of the Minister of Munitions (see *C. & D.*, September 29, p. 34) whereby glacial acetic acid and acetic acid of a purity of 60 per cent. and over was taken under control, has now been extended to "acetic acid of all strengths." Inquiries regarding this Order should be addressed to the Director, Chemical Section, Trench Warfare Supply Department, St. Ermins Hotel, Westminster, S.W. 1.

ENEMY PATENTS AND COPYRIGHTS.—British Dyes, Ltd., Huddersfield, are applying for licences to employ thirteen dye patents belonging to alien enemies. The hearings take place at the Patent Office Court on October 11.—The Controller of the Stationery Office is applying for a licence to reproduce Gleichen's "Theorie der Modernen Optischen Instrumente" and von Rohr's "Die Theorie der Optischen Instrumente." The hearing in this case takes place on October 17.

A MORE RIGOROUS BLOCKADE.—A still more rigorous blockade of Germany is to be enforced by Great Britain and her Allies following the conferences recently held between Lord Robert Cecil and the French Minister of Blockade. The King, at Buckingham Palace on September 29, held a Privy Council, attended by Earl Curzon, Lord Carnock, Sir Maurice de Bunsen, and Sir Frederick Ponsonby, at which his Majesty signed a Proclamation prohibiting the export of certain articles to Sweden and Holland. His Majesty's approval was also given to certain other measures which are to be taken with a view to making it more difficult for the enemy to secure goods through neutral countries. The Proclamation, which has since been issued, prohibits the export of goods to neutral countries except under licence, exceptions being made, however, in the case of printed matter (which remains subject to the censorship regulations), and personal effects accompanied by their owner.

PARCELS FOR OFFICER PRISONERS.—The Central Prisoners of War Committee, 4 Thurloe Place, London, S.W. 7, has issued a memorandum describing the revised scheme for the forwarding of parcels to officer prisoners of war. Parcels may be sent by anyone provided that the total amount is controlled by the system of coupons issued in booklets by the Committee. A small quantity of medical comforts and drugs other than those in the War Office prohibited list may be sent by the Invalid Comforts Fund, 19 Second Avenue, Hove, on application to the Fund, but only through that channel. The prohibited drugs are:

Emetine, strychnine, thymol, caffeine, capsicum, cascara, glycerin, ipecacuanha, olive oil, lanoline, quillaia-bark, nux vomica, senna, balsams, resins, oleoresins, gums, vaseline, aspirin, antipyrin, pyramidon.

The Army Council have decided that officers' parcels should be brought under control only in so far as they contain foodstuffs, medical comforts, drugs, and wines. Other articles, such as tobacco, cigarettes, and clothing, may, if not on the prohibited list, be sent through the parcel-post in the ordinary way, and not under cover of the Red Cross label; they will pass through the ordinary censorship.

Military Tribunals' Decisions.

SINCE OUR LAST ISSUE the following decisions have been notified:

BERMONDSEY.—A letter was read from the Munition Area Recruiting Officer for the district stating that he had received a communication from the Ministry of Munitions with respect to the certificate granted under the protected trades schedule to Mr. A. D. Chester (see *C. & D.*, September 15, p. 34; September 22, p. 34; and September 29, p. 34). It had been decided to remove the company from the list of protected trades, and the M.A.R.O. would in due course withdraw the certificate granted to Mr. Chester.

COLCHESTER.—The Tribunal consented to an adjournment in the case of Mr. F. W. Last, assistant with Mr. H. E. Baker, chemist and druggist, Head Street, who has undergone an operation.

GILLINGHAM.—Three months' exemption was granted to Mr. Robert S. Hardie, pharmacist, manager for Mr. C. E. Beveridge, chemist and druggist.

PEMBROKE.—Four months' temporary exemption was granted to Mr. Frederick L. J. Tucker, whose apprenticeship with Mr. Arthur Llewellyn Williams, pharmacist, Pembroke Dock, expires on October 19.

ROCHFORD.—The appeal of Mr. G. H. Richardson, patent-medicine dealer, South Benfleet, for further exemption was refused, applicant not to be called up before December 1. Laughter was caused by the suggestion that a good many residents had arrived since recent air raids, and needed tonics.

SOUTHBOROUGH.—Mr. H. Miles, chemist's assistant, Southborough, was granted two months' exemption.

SOUTHWARK.—Boots, Ltd., Borough Road, applied for the exemption of Mr. J. H. Gill, a senior buyer and manager of a patent department, who, it was stated, was dealing with special preparations for venereal diseases. Two months' final exemption was granted.

ONLY by the cultivation and co-ordination of all her intellectual and moral forces and vitalities will England come through her final ordeal triumphantly.—*W. H. Dawson.*

TREE-BANDING.—The grease-banding of fruit-trees is the subject of Food Production Leaflet No. 12 issued by the Board of Agriculture and Fisheries, 3 St. James's Square, London, S.W. 1. No particular grease-banding preparation is recommended, but it is stated that it should contain no pungent oil.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Chemical Trades Committee.

The Minister of Reconstruction has appointed a Committee to advise him as to the procedure which should be adopted for dealing with the position of the chemical-trades after the war. The Committee will be composed as follows: Sir Keith W. Price (Chairman) (Ministry of Munitions); Mr. John Anderson (Secretary National Health Insurance Commission (Eng.), attached Ministry of Shipping); Mr. J. F. Brunner, M.P.; Mr. Charles Carpenter, D.Sc., M.I.C.E.; Professor J. G. Lawn (Explosives Department, Ministry of Munitions); Sir William Pearce, M.P.; Mr. K. B. Quinan (Explosives Supply Department, Ministry of Munitions); and Mr. J. W. Wilson, M.P. Mr. G. C. Smallwood (Ministry of Munitions) will act as Secretary to the Committee. The officers of Government Departments are appointed with the concurrence of their respective Ministers, and the other members of the Committee have been appointed at the suggestion of a representative meeting of chemical-manufacturers. Dr. Addison has requested the Committee to conduct their deliberations with a view to the creation of some organisation which should be adequately representative of the trade as a whole, and by means of which the trade may be enabled hereafter to continue to develop its own resources and to enlist the closest co-operation of all those engaged in the chemical-industry.

Contracts.

The following tenders have been accepted by the Boards of Guardians or the other public bodies named.

Barnstaple.—Mr. E. W. Proudman, chemist and druggist, cod-liver oil and quinine.

Blean.—Mr. A. Lauder, chemist and druggist, High Street, Canterbury, drugs.

Blean Rural Council.—Jeyes' Sanitary Compounds Co., Ltd., disinfectants.

Brighton.—Baiss Bros. & Co., Ltd., druggists' sundries; Corbyn, Stacey & Co., Ltd., drugs, etc.

Chichester.—Mr. Sidney Bastow, Ph.C., Chichester, drugs and dressings; McDougall Bros., Ltd., sulphur cakes; Timothy White Co., Ltd., disinfectants.

Eton.—Griffith & Walden, chemists and druggists, Slough, drugs.

Hemel Hempstead.—Mr. F. Chapman, chemist and druggist, Hemel Hempstead, drugs and dressings.

Lambeth.—S. Maw, Son & Sons, Ltd., druggists' sundries; British Drug Houses, Ltd., drugs; Bai's Bros. & Co., Ltd., drugs. These tenders to remain in force for the duration of the war.

Luton.—Oxo, Ltd., meat extract.

Maidstone.—Oxo, Ltd., meat extract.

Malling.—Mr. F. J. Oliver, chemist and druggist, Maidstone, medical necessities.

North Brierley.—Brook, Parker & Co., Ltd., Bradford, drugs.

Richmond (Surrey).—Corbyn, Stacey & Co., Ltd., drugs, etc.

Solihull.—Mr. G. F. Winfield, chemist and druggist, Solihull, drugs, etc.

Stafford.—J. & H. A. Averill, pharmacists, Market Square, drugs, etc.

Stourbridge.—Mr. A. J. West, chemist and druggist, Amblescote, drugs, etc.

Wandsworth.—Middleton Bros., disinfectants; A. Berton, Ltd., surgical dressings.

Birmingham.

The annual meeting of the local Association is fixed for October 24.

A local firm advertises a wrapping-material, in rolls of 250 feet by 26 inches, under the name "Corruqa."

Councillor Martin Magor, Ph.C., Chairman of the Solihull Guardians, recently gave a tea to the aged inmates of an institution in his care.

The son of Mr. J. W. Bland, chemist and druggist, Belgrave Pharmacy, Moseley Road, has passed from a successful school career to a medical course at the University.

Local nurses are complaining of a new preparation of iodine the vapour of which makes their eyes smart. Can this be a tincture or liniment made with methylated spirit?

Lady dispensers at military hospitals are to be supplied with khaki costumes in lieu of blue ones. All sorts and conditions of men and women are taking up dispensing in this city.

Among the donors to the Lady Mayoress's fund for comforts for prisoners of war are Southall Bros. & Barclay, Ltd., Cadbury Bros., Ltd., Mr. and Mrs. G. Cadbury, Mr. and Mrs. B. Cadbury, Mr. W. A. Cadbury, and Mr. G. Cadbury, jun.

By the death of Mr. Alfred Smeaton Johnstone, at the age of eighty-two, Birmingham loses a distinguished and successful man of science. He will be remembered as the first in England to render nickel and cobalt malleable, after tracing their brittleness to occluded carbon dioxide; and he also effected improvements in the alloy known as German silver.

Liverpool.

An old-established pharmacist has just obtained a holiday by the only course open to him—that of closing his shop.

On receiving notice that "prices ruling on day of delivery will be charged" for brushes that he had ordered, a local chemist promptly cancelled the order.

The present Lord Mayor of Liverpool (Mr. Max Muspratt) is to be succeeded by Major John Utting, R.A.M.C., a medical man prominently associated for some years past with public hygiene and hospital organisation.

The annual report of the Soldiers' Comforts Fund organised by the Liverpool office staff of Evans Sons Lescher & Webb, Ltd., records that 159 parcels have been despatched during that period at a cost of 73*l*. A second donation from the directors and a credit balance are other pleasing features of the statement of account.

Five French soldiers entered a local pharmacy this week, having been attracted by the window-display, including French perfumes and other Parisian specialities. They remained for half an hour, conversing with the proprietor about his various articles of French origin in stock, and made purchases to a liberal amount. When finally he presented each of the five with a shaving-stick as a souvenir, the Anglo-French entente was evident to English customers who had enjoyed the witnessing of the mutual courtesies. Never before the war were so many French visitors seen in Liverpool; indeed, save at the wool sales, they have been a rarity.

Manchester.

Mr. J. Cleworth, pharmacist and photographer, has been appointed official photographer to a large and well-equipped dépôt in the Western Command, this being the second dépôt at which he acts in this capacity.

"The demand for supplies of film has never been greater," was the gist of the replies to a query put lately to several photographic chemists. The prices of some photographic chemicals have been reduced, but hypo. shows a decided tendency to rise, and is already 8*d*. per lb. at one leading establishment.

Manchester panel pharmacists have recently received an official intimation from the Insurance Committee that when malt extract or malt extract with cod-liver oil is ordered the B.P.C. product must be supplied. Doctors had been complaining previously of the poor therapeutic results obtained from samples of uncertain strength.

The majority of chemists in Manchester and the district are very pleased at the success of the representations made by the Early Closing Association and various other bodies for the continuance of early-closing hours—viz., 9 P.M. on Saturdays and 8 P.M. on other weekdays. This boon, together with that of the Daylight Saving scheme, has been much appreciated during recent months.

The C. & D. editorial article (September 22, p. 44) on the Oat and Maize Products (Retail Prices) Order, 1917, has resulted in the suspension by chemists in Manchester of the sale of a proprietary food until an assurance is received from the makers of indemnity in the event of proceedings being taken. Failing such assurance, the return of the present stock is threatened.

Sheffield.

The Chairman of the Royal Infirmary Committee, in appealing for increased subscriptions, points out that the cost of surgical dressings alone has risen from 1,269*l*. to 3,000*l*.

Local panel chemists have been requested by the Insurance Committee to aid the Pricing Bureau by marking their scripts, "Bottle not supplied," whenever the patients bring their own poison-bottles.

Several pharmacies in the district have been visited by an official whose apparent (and unsuccessful) purpose is to purchase Robinson's barley, etc., at the old price (see C. & D., September 22, p. 44).

At a meeting presided over by Alderman H. Dunn, Ph.C., 500*l*. per annum was voted by the West Riding Education Committee to the Sheffield University for instruction in glass-manufacture and technology.

Among the authors of papers to be read during the coming session of the local Society are Dr. Turner and Messrs. W. L. Currie, F. G. Hines, and J. Batey. The subject chosen by the last-named is the bearing of the new Education Bill on pharmacy.

Mr. Albert Reuben Powell, pharmacist, Grimesthorpe, true to his belief in attractive window-shows in munition areas, is making an original display of toilet-articles under the name "Alrepe," coined from the first two letters of each of his own names.

Miscellaneous.

RAMSAY MEMORIAL FUND.—The amount received for this fund is now 21,782*l*. 9*s*. 6*d*.

SHOPLIFTING.—At Stafford Police Court recently, John Gardiner was fined 3*l*. for taking a bottle of brilliantine, value 2*s*., from the counter of J. & H. A. Averill, pharmacists, Market Square, while being served.

THE WARRINGTON EXPLOSION.—A verdict of "Death from misadventure" was returned at the resumed inquest on three employes of Joseph Crosfield & Sons, Ltd., Warrington, who died from injuries received in an explosion on August 29 (C. & D., September 1, p. 35), and the company was exonerated from blame.

STOCKS OF LARD.—Persons holding stocks of more than 10 tons of lard on September 29 (other than neutral lard and compound) are required by an Order of the Food Controller issued on that date to furnish him by October 3 with a return showing particulars of these stocks. The Order does not apply to those who hold lard merely as storekeepers.

SALE OF FOOD AND DRUGS ACT.—The quarterly report of the Derbyshire county analyst states that four samples of drugs failed to comply with the B.P. requirements. Two samples of camphorated oil were deficient in camphor, and one each of ammoniated tincture of quinine and sal volatile proved deficient in ammonia.—Samples of paregoric and of glycerin taken during the past year at Barnsley were certified as genuine.

POISONINGS.—The following cases have been reported during the past week: Florence Elizabeth Widdicombe was committed for trial on a verdict of murder, from seven of the jury, at the resumed inquest on the death of an infant from acetanilide at Chudleigh (see C. & D., September 22, p. 36).—At Brighton, a verdict of "Death from poisoning" was returned in the case of Lieutenant Percy Benson, a Canadian officer, who complained of headache in an hotel bar, and was given a perchloride-of-mercury tablet in mistake for a headache-tablet. A medical witness pointed out that both kinds of tablet were coloured blue.—At Tiverton, Mrs. Candey, Granville Street, Devonport, died of exhaustion following chronic catarrh set up by chlorodyne, which had been taken secretly for some time.—"Death from an overdose of veronal" was the verdict returned at an inquest on Mr. Edward Colthurst Vesey, Lucan, co. Dublin, who was found semi-conscious in a Manchester hotel with veronal-tablets in the room.

Irish News.

Brevities.

Mr. Wm. McMullan, of Thos. McMullan & Co., chemists, Belfast, has been elected on the Committee of Superintendence of the Ulster Bank, Ltd., Belfast.

Mr. J. A. Burke, Ph.C., Grand Parade, Cork, and the Cork Chemical and Drug Co., Patrick Street, were awarded 8*l*. and 5*l*. respectively for damage done to plate-glass windows during the Sinn Féin riots of July last.

Instructions have been issued by the War Office that civilian dispensers and compounders in military hospitals in Ireland are to be paid the war bonus allowed to persons drawing not more than 250*l*. per annum.

At Belfast Bankruptcy Court last week, the case of D. G. Tweedie, clerk with Grattan & Co., Ltd., came up on a motion to stay proceedings on a petition for adjudication, on the grounds that the debtor was entitled to relief under the Courts Emergency Powers Act. Mr. William Beattie, B.L., appeared for the debtor, and stated that the liabilities amounted to 173*l*., and debtor was unable to pay them off except by instalments owing to the war. He was in receipt of 110*l*. a year, and he offered to pay 5*l*. 10*s*. per month. The debtor said all his debts were due to money-lenders. Judge Craig said the debtor had been brought to his present state by his own incapacity and inability to manage his own affairs. His Honour refused the motion.

At Ballymena on September 29, three youths, named Samuel Wallace, Thomas McFall, and John O'Hara, were charged on remand with having maliciously injured the mahogany framing and pilaster of two windows in the shop of Mr. John Alexander Woodside, Ph.C., Church Street, Ballymena. A fourth prisoner, John Russell, was also charged, having been arrested on September 28. Mr. Woodside gave evidence that the mahogany work and pilaster of the windows were cut and hacked as if with a blunt instrument. He had lodged a claim for 25*l.* compensation for the injury. The Court committed the accused for trial at Ballymena Quarter Sessions, fixing personal bail of 10*l.*, and one surety each of a like amount (see *C. & D.*, September 29, p. 36).

Scottish News.

Brevities.

Judge Raffan, chemist and druggist, Stirling, was recently presented at the local police-court with white gloves, there being, for the fifth time this year, no cases for trial.

A correspondent of the "Scotsman" endorses the value of carrageen as a food, and adds that there are "some half-dozen other edible seaweeds on the West Coast, of which dulse and laver or sloke are perhaps the best known," and that they may be used either fresh or after bleaching.

Dundee.

Sugar is demanded from the Board of Agriculture by the East of Scotland Beekeepers' Association for bee-feeding during the coming winter.

Recent correspondence in the local Press goes to show the value of *Linum usitatissimum* as a national asset and, incidentally, as a crop yielding the grower an estimated return of 50*l.* per acre on an outlay of 6*l.*

Edinburgh.

Not so many years ago, one recalls with regret, a local firm used to announce, "Sugar for nothing." And now—!

Some wholesale houses are now invoicing a large proportion of items as "net"—it's a capacious net, so to speak.

The screening of lights is to be again enforced. Chemists find that the necessity of taking bottles near a light for measuring out adds considerably to the daily mileage.

Sunday is becoming more and more the weekly dosing day, especially for children. It is not unusual in some districts to dispose of several dozen stomachic powders on the first day of the week.

Chemists who have not been supplying monthly returns of their male employés to the military authority should in future do so regularly, as it is understood that a list of firms not complying with the regulation is in course of preparation.

Glasgow.

In the annual report of the Houldsworth Homeopathic Hospital it is stated that 116 cases were treated in the hospital and 4,608 at the dispensary. A legacy of 2,250*l.* for extension purposes has been bequeathed by the late Miss Houldsworth.

A propos the recent remarks of "Xrayser II." on the stocking of tea by chemists, the leading pharmacies in Glasgow half a century ago all stocked the "blend." The late Mr. John McMillan, chemist and druggist, was noted also for his fine Havana cigars.

Steps have been taken for the equipment of a bacteriological laboratory at the Glasgow Veterinary College, and research-work will be undertaken there, with special reference, in the first instance, to the sheep-disease known as "braxy." Mr. S. H. Gaigor, F.R.C.V.S., is the new professor in charge.

VINEGAR may be cleared by adding 1½ oz. of fresh milk per gall., shaking, setting aside for twenty-four hours, and pouring off the clear portion.

TARAXACUM.—Examination of samples from a recent importation of dandelion-root into the United States disclosed the presence of about 40 per cent. of discoloured or improperly dried root. The United States Department of Agriculture is to recommend a limit of 10 per cent. of such roots.

PASTEUR'S WORK commenced in an inquiry into the crystallographic differences of certain chemical substances, leading him to the result that certain kinds of chemical fermentation are due to the action of living organisms which are not born spontaneously in the fermenting material, but are derived from infection. Lister seized on this and applied it to medicine and surgery.—*Sir Richard Glazebrook.*

Deaths.

SMALLMAN.—At "Rowley," Chelston, Torquay, on September 26. Mr. Frederic Noel Smallman, chemist and druggist, director of Ernest Jackson & Co., Ltd., Crediton, aged thirty-eight.

Died on Service.

BARNES.—Private William Barnes, East Kent Regiment (Buffs), has been killed in action. For five years he was an assistant with Mr. A. H. Carpenter, chemist and druggist, Southend-on-Sea.

ENGLAND.—Private Charles England, Worcestershire Regiment, has been killed in action, aged twenty-five. Prior to enlistment he was with Chance & Hunt, Ltd., Oldbury.

GIBBS.—Lance-Corporal J. E. Gibbs, South Lancashire Regiment, has been killed in action. He was in civil life a member of the staff of Joseph Crosfield & Sons, Ltd., Warrington.

HUGILL.—At a London military hospital on September 28, of an illness contracted on the Somme, Captain Edwin Abbott Hugill, a director of Meggeson & Co., Ltd., and youngest son of the late John Hugill, of Chislehurst, Kent. The funeral took place on October 3.

ROLLS.—Private W. H. S. Rolls, Highland Light Infantry, has been killed in action. Prior to enlistment he was on the clerical staff of Goodall, Backhouse & Co., Leeds.

Personalities.

MR. J. JULEFF, pharmacist, has resigned his appointment as dispenser at the Islington Parish Infirmary.

COUNCILLOR W. S. N. MERRICK, pharmacist, Dorchester, has been elected a member of the Dorchester Food Control Committee.

MR. A. E. HOBBS, Ph.C., J.P., has been presented with a case of cutlery by the Tunbridge Wells Tradesmen's Association in recognition of his two years' services as President.

MR. W. H. COATES, late with J. & H. Browning, Bartholomew Close, London, E.C., is now with Wm. Browning & Co., manufacturing chemists, Albert Works, Park Street, London, N.W.

SIR JESSE BOOT has, it is believed, made a record by effecting insurances for some 10,000 employés against casualties from hostile aircraft or submarines up to 100*l.*, and on the household effects of over 3,000 married employés up to 200*l.*, in each case.

AT A MEETING held last week at Dundee, Mr. G. M. Kemp, pharmacist, Boots, Ltd., Dundee, was installed Sovereign of Inverurie Conclave No. 9 (Forfarshire), Masonic Order of Knights of Red Cross of Rome and Constantine, K.H.S. and St. John, by P.S. A. A. A. Murray, M.A., LL.B., W.S., J.P., F.R.S.E., Recorder (Grand Imperial Council of Scotland), assisted by other Freemasons from Edinburgh.

Business Changes.

MR. A. S. BARNES, chemist and druggist, has opened a new pharmacy at 5 Regent Street, Rugby.

MR. ANDREW BREESE, chemist and druggist, The Cross, Newtown (Montgomeryshire), has disposed of his premises to a bank.

THE DITCHLING PHARMACY, 29 Ditchling Road, Brighton, opened early this year by Mr. Ellinor, chemist and druggist, has been closed.

MR. G. W. B. PALMER, chemist and druggist, has taken the premises at 21 North Road, Brighton, previously occupied by Mr. J. W. Chaplin, and will reopen, after alterations, under the title of Chaplin & Co.

FUSED SILICA is now largely employed for the manufacture of condensers and conduit-pipes in nitric-acid plants in this country.

THE GAME of keeping boys and girls shut up in stuffy rooms memorising things that will be of no use whatever to them in actual life, simply in order that they may score marks by copying them out in an examination-room, has been carried too far in the past, and we hope that one effect of the war will be to consign to the rubbish-heap a large proportion of the waste luxuries of our present academic educational systems, and to replace them by subjects better calculated to develop national efficiency.—*Nature.*

Legal Reports.

Vinegar.—At Guildford last week, the Surrey Trading Co., Ltd., was summoned for having sold vinegar which contained 20 per cent. of added water. Mr. J. E. Forrest, for the defence, said the company purchased the vinegar under a guarantee and sold it in good faith. After the sample had been taken the vinegar in the cask was submitted to the makers, who said that the strength had evaporated. Witness had ascertained that the vent-pcg had been left out, which would cause the vinegar to lose strength. The Bench dismissed the summons upon payment of 14s. 6d. costs.

Alleged Frauds on Wholesalers.—At the Mansion House Police Court, London, E.C., on September 27, Maurice Balk (17), Seven Sisters Road, underwent a final examination upon charges of obtaining, by means of forged orders, from W. Edwards & Son, Queen Victoria Street, goods of the value of 83l. 16s. 2d.; from Burroughs Wellcome & Co., Snow Hill Buildings, goods of the value of 31l. 19s. 7d.; and from Kodak, Ltd., Kingsway, goods of the value of 6l. 15s. 3d. (see *C. & D.*, September 29, p. 38). Henry Peter Koski, fancy-goods dealer, of Wilberforce Road, Finsbury Park, and Richard Wilson, chemist, Stroud Green Road, were charged with unlawfully receiving—Koski, goods of the value of 82l. 11s. 6d., the property of W. Edwards & Son; of the value of 12l. 3s. 6d., the property of Burroughs Wellcome & Co.; and Wilson, goods value 1l. 4s. 8d., belonging to W. Edwards & Son, and of the value of 13l. 14s. 6d., the property of Burroughs Wellcome & Co., and also property belonging to Kodak, Ltd., to the extent of 5l. The accused, who pleaded not guilty and reserved their defences, were committed for trial at the Central Criminal Court, bail being granted for each in the sum of 200l.

Travellers' Remuneration.—At the City of London Court on October 1, before Judge Rentoul, an action was brought by E. H. Jones & Meakin, Ltd., merchants, 7 Arthur Stret, London, E.C., against Mr. R. C. Dallas, traveller, to recover the sum of 65l. 10s. 9d. for money advanced and goods supplied. The defendant paid 2l. 3s. 6d. into court for goods supplied, leaving the balance in dispute. Defendant's engagement as commercial traveller was on terms of 25 per cent. commission on the net profits arising from all orders on liquorice-juice, etc., which he obtained, but he was not to have a salary. When he left plaintiffs' services in June he had earned 42l. 2s. 9d. commission, but had had advanced to him 105l. 10s., leaving the balance sued for. Defendant alleged he was entitled to a salary of 2l. 10s. a week, and if his commission of 25 per cent. exceeded that sum he was to have the sum in excess. The 2l. 10s. a week was a retaining-fee. Judge Rentoul said he could not have any doubt about the case. The evidence before him was such that he must find for the plaintiffs, with costs. Mr. Handcock, defendant's solicitor, asked for time to pay, but this was opposed by the plaintiffs, who said that during the last three months defendant had made between 200l. and 250l. over one order.

Salicylic Acid as a Preservative.—At Pontypridd Police Court on October 4, the Stipendiary Magistrate, Mr. D. Lleufer Thomas, gave his decision in a case instituted against a local trader for having sold ginger-brandy said, according to the county analyst, to contain 7 gr. of salicylic acid to the pint, the analyst's view being that not more than 1 gr. to the pint should be allowed (see *C. & D.*, September 29, p. 38). His Worship, in delivering judgment for defendant, emphasised the point that the certificate of the county analyst, upon which the prosecution relied, embodied the observation of the analyst that "I am of opinion that only 1 gr. of salicylic acid per pint should be allowed." This observation of itself expressly admitted the necessity of some quantity of the acid, although a foreign ingredient, being added to food as a preservative. The question, therefore, resolved itself into what degree such an acid should be allowed as a preservative, and as to this the decision of the Bench must rest upon expert scientific evidence. The analyst's certificate was the only evidence put forward on behalf of the prosecution, and whereas in the case of milk, say, no water was to be utilised, in the case of food it was allowed to be added, as a preservative, and, as he had stated, it was a question of degree. The view expressed by the county analyst—that not more than 1 gr. to the pint should be allowed—agreed, or coincided, with the view held by the Departmental Committee's Report of 1901, which Committee had dealt with this matter of preservatives. The defence had relied upon the view of Mr. E. J. Parry, analytical chemist, London, and a local medical practitioner, Dr. Morgan Rees. The former had expressed the

view that 7 gr. of salicylic acid per pint is necessary as a preservative in the case of ginger-brandy, that the 1 gr. suggested by the county analyst would be useless for the purpose, and that 7 gr. would not be injurious to health. While he had admitted that in past years many had agreed that the use of the acid in the proportion now involved would be injurious to health, he had afterwards emphasised the fact that the manufacturers had since then eliminated any impurities which then might have existed in the acid. Dr. Morgan Rees had concurred in the view that 7 gr. to the pint was not injurious, having, as he stated, utilised the acid in the preservation of jam for the purposes of his own family. With regard to any modification of scientific views respecting the use of the acid, such views are not of a static quantity. They are continually changing, and if there had been the change as stated by Mr. Parry for the defence, then prosecutions of the kind should not be insisted upon in future unless expert evidence is called in support of the view that the drug is not the harmless drug it is alleged to be in the defence in the present case. The Bench should not have the onus placed upon it of deciding these scientific issues. The weight of evidence in the case now being dealt with was on the side of the defence, and the summons would be dismissed. Proceeding, the learned Stipendiary observed that he had made investigations with the view of ascertaining whether or not the drug was a harmless drug, whether experts had come to a conclusion on the point, or whether the issue was still a debatable one. There was the fact that in 1901, after careful examination of the evidence on behalf of both sides, not that of interested parties only, the Departmental Committee on Preservatives recommended that not more than 1 gr. per pint should be allowed in any article of food. This was an important consideration. It was true the recommendation had not been adopted in practice actually, but, on the other hand, it had not been repudiated by the Local Government Board or any other Department, and until it is repudiated it is naturally regarded by many people as having the force of law. Then, again, as there were many impurities of an innocuous kind in the drug a few years ago, there is a certain risk that to-day, with the great scarcity of drugs, the impure drug might be used. Except in the most expensive kinds the acid is apt to contain dangerous impurities, although in the case before the Court there is the fact that the county analyst's certificate did not refer to any impurity in the acid. In spite of Mr. Parry's expert evidence for the defence, and his disagreement with the view of Dr. Kenwood that salicylic acid is of an injurious character, still Dr. Kenwood's opinion could not be brushed aside as being a "mere fad." He referred to Dr. Kenwood's official positions, and remarked that if he is rightly informed the use of the acid is strictly prohibited in France and the U.S.A., and such a policy as adopted in these countries could only be consistent with the belief of their scientific men that the acid is injurious. Private information given him by a gentleman well qualified to express an opinion was to the effect that such drugs—acid and the like—are utilised to prevent fermentation. Proceeding, his Worship referred to the considerable quantities of the acid which might be taken by an individual who took a meal, say, of sausages and preserved fruits, followed by a drink of, say, as the article involved in this case was, ginger-brandy. The effect of the acid might not be immediately felt. It was of an insidious character, and revealed itself only after continual dosing of it. It seemed desirable, said his Worship, that if the use of the acid was permitted its presence should be noted on the labels of the articles involved, and that the amount to be used should be strictly limited. He emphasised the need for a Department of Public Health in the country, remarking that to-day no particular Department appeared to be responsible for administering matters in this connection. He felt now, after careful consideration of this case, that local authorities should be urged to unite in pressing upon the Government to establish immediately a Ministry of Health, whose duty it would be, among others, to deal with the proper standards of purity and nourishment in articles of food. When the life-blood of the country was being drained by this terrible war it was for them at home to see to the protection of the health of the community. As stated, the case was dismissed.

ATTEMPTS to destroy or annul the activity of the tubercle bacillus in the tissues have occupied the minds of experimental pathologists in many lands since the selective action of tuberculin was first demonstrated. It has now been found that certain substances, of which trypan-red is thought to be the best, have a definite effect upon the blood-vessels surrounding a tuberculous lesion, and that in the laboratory such substances will inhibit the growth of the bacilli when used in sufficient concentration.—*British Medical Journal*.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

JAPLIN'S INSTANT TOOTHACHE CURE, LTD. (P.C.).—Capital 100l. Objects: To carry on business as patent-medicine vendors, etc. R.O., 2-4 Tudor Street, London, E.C.

BERNARD NICKLIN & Co., LTD. (P.C.).—Capital 10,000l. Objects: To carry on, among other things, the business of a chemical-manufacturer. Solicitors, Pinsent & Co., 6 Bennetts Hill, Birmingham.

YARBOROUGH STEAM FISHING Co., LTD. (P.C.).—Capital 20,000l. Objects: To carry on business as shipowners, cod-liver oil manufacturers, etc. R.O., Wharncliffe Road, Fish Docks, Great Grimsby.

J. B. & J. ATHERTON, LTD. (P.C.).—Capital 1,000l. Objects: To carry on business as manufacturers, merchants, importers and exporters of and contractors for fuel-oil, ammonia and creosote salts, and as manure and chemical manufacturers. Solicitor, F. F. Gaskell, 71 Lord Street, Liverpool.

RIVERSIDE CHEMICAL Co., LTD. (P.C.).—Capital 2,000l. Objects: To carry on business as pharmaceutical, analytical, manufacturing, and consulting chemists, druggists, dry-salters, oil and colour men, importers, manufacturers, agents, dealers in photographic materials, etc., shipowners, etc.

W. W. HARRIS & Co., LTD. (P.C.).—Capital 1,500l. (limited by guarantee). Objects: To carry on the business of varnish, paint, and enamel makers, linseed-oil boilers and refiners, and manufacturers of and dealers in dry-soap detergents. Solicitor: W. Sparks, 32 Walbrook, London, E.C.

CASSIO, LTD. (P.C.).—Capital 150,000l. Objects: To carry on business as manufacturers of and dealers in photographic paper and photographic and scientific appliances, accessories, and requisites, publishers, printers, dealers in advertising novelties and fancy goods, etc. Agreement with Baryta, Ltd., and its liquidator. R.O., Cassio Bridge, Watford.

CHARLES BAKER (BRUSHMAKERS), LTD. (P.C.).—Capital 3,000l. Objects: To take over the business carried on at 39-40 Great Dover Street, S.E. 1, as "C. Baker," and to carry on the business of manufacturers, brokers, and merchants of and agents for scavengers' brushes, brooms, hair, clothes, shaving, tooth, and other brushes, etc. R.O., 39-40 Great Dover Street, London, S.E. 1.

TAYLOR'S DRUG Co., LTD.—The dividend on the 6 per cent. preference shares, due October 1, was paid on September 29.

EVANS SONS LESCHER & WEBB, LTD.—Warrants for the half-year's dividend, due on October 1, on the 5 per cent. cumulative preference shares, were posted on September 29.

COMPANIES WHICH MAY BE WOUND UP.—Three months from September 25 the names of the undermentioned companies will, unless cause is shown to the contrary, be struck off the Register and the companies will be dissolved: Chita Natural Soda Syndicate, Ltd.; Dreadnought Mineral Waters, Ltd.; Eustace Miles Health Home, Ltd.; London Dreadnought Mineral Water Co., Ltd.; Cleartone Antiseptic Telephone Drum, Ltd.; Colour Photography (Foreign Patents), Ltd.; Electrolysers, Ltd.; Lister's Antiseptic Wound Cure Co., Ltd.; Melcasma Foods, Ltd.; Oxydol (1914), Ltd.; and Pratic Soap and Chemical Manufacturing Co., Ltd.

LA SOCIÉTÉ CHIMIQUE DES USINES DU RHONE.—The 1916 balance-sheet of the Usines du Rhone shows a net profit of over six million francs, against nearly five millions in 1915. Founded in 1895, this enterprise gave no very satisfactory results until 1916, and up to 1909 its annual profits still remained under a million francs. In 1910, however, the balance-sheet showed profits of over two million francs, and the war has accentuated its activity and prosperity, last year's business representing a total sum of 125 million francs. Best known to the general public as a large producer of aspirin, etc., the company is engaged at present in work of national interest. Its new works at Roussillon were established by agreement with the Government explosives authorities. On the other hand, the old works at Saint-Fons (near Lyons) and La Plaine (in Switzerland) have been very largely developed.

BROOKS CASH CHEMISTS, LTD., 36 King Street, Blackpool. A meeting of the creditors herein was held on September 25, when the statement of affairs submitted showed liabilities amounting to 920l. 19s. 6d., and assets valued at 571l. 8s. 9d., after allowing for the claims of preferential creditors, leaving a deficiency of 349l. 10s. 9d. It was

reported that the company was formed in March 1912, with a nominal capital of 1,000l. in 1l. shares, the amount subscribed being 350l. The business previously belonged to Mr. Rosenweig, who failed in May 1911, and it was bought over from the trustee and floated into a limited company, Mr. Rosenweig being continued as manager. When the war broke out there was a suggestion as to the nationality of Mr. Rosenweig, and eventually it was decided that the company should dispense with his services, and the name of the company was changed to "Brooks Cash Chemists, Ltd." The company never had much floating capital, and owing to the losses made since its inception an overdraft had to be arranged at the bank, which was guaranteed by Mr. Potter, Mr. Brooks, and Mr. Woods. The amount of the overdraft at the date of the liquidation was 273l., and this has been paid by the guarantors, who will take their place as creditors. The secretary, auditors, and officials of the company, with the exception of the manager, have not received any salary, and no directors' fees have been paid since the inception of the company. The sales from 1913 to 1917 have ranged between 776l. and 958l., while the loss in 1913 was 94l., and has gradually increased until for the year ending 1916 the loss totalled 206l. The position was fully discussed, and it was decided that the liquidation of the company be continued, with Mr. Richard Watson Wood and Mr. Alec Stuart Oldman as joint liquidators, with a committee of inspection. The creditors include: Ayrton, Saunders & Co., Ltd. (Liverpool), 176l.; Cuxson, Gerrard & Co., Ltd. (Birmingham), 20l.; Burgoyne, Burdidge & Co., Ltd., 15l.; J. Morgan Richards & Sons, Ltd., 6l.; Henry C. Quelch & Co., 7l.; T. Guest & Co., Ltd., 6l.; W. J. Bush & Co., Ltd., 7l.; J. Grossmith, Son & Co., 20l.; Wright, Layman & Umney, Ltd., 15l.

Business-names Registrations.

AMBER VARNISH Co., Western Road, Merton, London, S.W. Proprietor, Verney C. Morgan, also trading as W. Morgan & Son.

S. MATTHEWS & Co., dealers in Glauber's salt, etc., 36 Grosvenor Road, Forest Gate, London, E. Proprietor, Geo. P. Page.

RIVIERE ET CIE, soap and perfumery manufacturers, Star Soap and Perfumery Works, Carpenter Road, Stratford, London, E. Partners, Harriet E. Moll and Albert W. Woodhatch, executors of the will of the late Frederick S. Moll.

WILLETT & SONS, veterinary surgeons, 70 High Street, Staines. Partners, Fredk. W. Willett and Albert E. Willett.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

QUALITATIVE ANALYSIS FOR JUNIOR STUDENTS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture. Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, marked "Corner for Students" on the top left-hand corner) will be received up to Tuesday, October 9, on which day the samples will be posted. Students' reports will be received up to Saturday, October 20. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

SPECIAL NOTICE.—The prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports. Others may obtain specimens of the mixture of salts, and their reports will be separately adjudicated, but they will be regarded as *hors concours*. Correspondents who do not state that they are preparing for a qualifying examination will be included in the latter list.

Associations' Winter Session.

Chesterfield.—The annual meeting of the Chesterfield and District Pharmacists' Association was held on September 23 at the Sun Inn, Mr. G. D. Denwood in the chair. The Hon. Secretary (Mr. J. H. Toplis) gave his report, and the Hon. Treasurer produced the balance-sheet, showing a small balance to the good. The retiring President said he wished to thank all for the courtesy and kindness which had been extended to him during the year of office, and particularly to thank the Secretary for the invaluable help he had given him at all times. In the traders' effort for the funds of the Chesterfield Hospital the chemists' section had raised over 70% for the Bazaar Funds. He thought that result most satisfactory, and entirely due to the efforts of the Hon. Secretary. Mr. Smith (President-elect), in taking the chair, thanked the members for the honour they had conferred on him, and said he would endeavour to fulfil the duties of office to the best of his ability. The following officers were elected for the ensuing year: *Vice-President*, Mr. S. C. Greaves; *Hon. Secretary*, Mr. J. H. Toplis; *Hon. Treasurer*, Mr. S. C. Greaves; *Auditors*, Messrs. Twelves and Dent; *Committee* as before. The President said he hoped that some member would give a paper at every meeting during the session, not necessarily on trade matters, but on any topic.

Hull.—The opening meeting of the winter session of the Hull Pharmacists' Association was held on October 2, and presided over by Mr. Selle. The principal matter to engage the attention of the meeting was a paper by Mr. J. F. Robson on "Motoring Grave and Gay," in which he advocated on grounds of health and change the adoption of motoring as a hobby for chemists.

Irish C.A.A.—A general meeting of the Dublin Centre was held at 38 Upper Sackville Street, the President (Mr. J. Hogan, L.P.S.I.) in the chair. There was a good attendance, and much enthusiasm was evinced in the proceedings. Reports were submitted by the General Purposes Committee, House and Organising Stewards, and the Educational Executive. These dealt with, *inter alia*, the all-round advances of salaries granted to the assistants, averaging 12% per annum, revised hours of duty and mitigated Sunday attendance, the unifying of charges for prescriptions compounded before and after the nominal day's work, increased facilities for study and amusement afforded the members through the opening of the analytical and research laboratory connected with the Association. The Organising Committee's report was of special interest, as it dealt with the rise and progress of the Association, with which were now identified not less than 90 per cent. of the assistants throughout Ireland. The branches in Cork and Limerick were growing apace. The Association was solid on the betterment of pharmacy and its followers, and its helpful aims made for the good of all concerned. Propaganda work had been vigorously carried on in Munster and north of the Boyne, and the results were encouraging. The educational programme was developing, and it was hoped soon to see tangible results in the honours list. The starting of post-graduate classes for students who desired to map out the higher pharmaceutical standard was a strong plank in the up-building at the close of the war, when a determined effort would be made for the resumption of night lectures in medicine. There was, said the President, a great want of doctors just now, and there would be a great need for them in the future, and the opportunity would not be lost of pressing upon the Medical Council the claim of the pharmacist and chemist for special consideration in the matter of time and occasion for study. The reports were adopted. The President congratulated the members on the strong position now occupied by the Association. Although but a year in being, it had fully justified its existence, and the soundness of its policy was evidenced by the results achieved. More concessions had been got through its instrumentality than it was thought possible in the past. The employers were reasonable, and saw nothing amiss with the Assistants' Society.

Merthyr Tydfil.—At the monthly meeting of the Merthyr Pharmacists' Association, it was unanimously decided to urge the Proprietary Articles Trade Association to take steps for increasing the retailer's profit on proprietary articles listed by the P.A.T.A. The points submitted for consideration by that Association are that—

(1) Profits should not be less than 53½ per cent. on cost, or 25 per cent. on sales.

(2) Proprietaries should not be sold at less than face value.

(3) An equitable profit would successfully counter substitution, and produce mutual good will.

(4) The present time is opportune to bring about the suggested change. Impending increased taxation demands better remuneration forthwith.

(5) Increased capital expenditure on purchases and greater establishment-costs must be met by *pro rata* profits.

Newport (Mon.).—The Newport Pharmaceutical Association's microbiology class, conducted by Professor Bennen, B.Sc., has begun its session, meeting on Wednesday evenings at 8.15. The laboratory is fitted up with the most up-to-date apparatus, etc.—The South Wales and Monmouthshire Chemists' Federation has arranged to hold a social gathering at Newport on October 25, when Principal Holland, M.A., M.Sc., LL.D. (who takes a deep interest in things pharmaceutical), will speak on the industrial side of chemistry. Among other representative public men who have accepted invitations to be present is Sir Garrod Thomas, M.P., M.D., D.L.

Wolverhampton.—The Wolverhampton and District Chemists' Association prizes for botany and chemistry, open to students at the Wolverhampton Technical School, have been awarded to Hilda M. Jones (botany) and Bernal A. Beckley (chemistry). The pharmaceutical course at the Technical School resulted in Hilda M. Jones being classed first in the second year and Rosalie E. Coleman first in the third year. The School prize for *matéria medica* was awarded to Rosalie E. Coleman.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Bournemouth.—At the meeting of the Insurance Committee (C. & D., September 29, p. 46) consideration was given to a resolution from the Manchester Insurance Committee. That Committee, viewing with alarm the possibility of an insufficient supply of glycerin for medicines for insured persons, urged the Commissioners to take necessary steps to secure that an adequate supply of glycerin should be available for that purpose, and it was decided that both the Pharmaceutical and Panel Committees should be consulted on the subject. The question of the difficulty of obtaining sugar for the sweetening of medicines was discussed, and the Clerk was instructed to request the Panel Committee to use its influence with panel doctors to abstain from ordering sugar or syrup as sweetening agents whenever possible.

Derbyshire.—The Insurance Committee, at its last meeting, resolved to support the resolution of the Manchester Committee viewing with alarm the possibility of an insufficiency in the supply of glycerin as medicine for insured persons, and urging the Insurance Commissioners to take any necessary action without delay to secure that an adequate supply would be available. A return by the Panel Sub-Committee of twenty-one cases, in which they were of opinion that panel doctors had issued prescriptions in excess of what was reasonably necessary for adequate treatment, was referred to the Joint Services Sub-Committee. The total estimated excessive cost was 156% 12s.

Hereford.—The Insurance Committee has decided to pay panel chemists' accounts for May, June, and July, together with the balances due, totalling 292% 19s. 5½d., and has resolved to request panel practitioners supplying drugs and appliances under Article 12 (3) (b) of the Medical Benefit Regulations to forward their accounts to the Committee as often as convenient, but at least once in every three months.

Manchester.—The Insurance Committee has issued to all panel practitioners and chemists in the area a circular letter containing "Notes for Prescribing and Dispensing," with a view of "facilitating the arrangements in connection with the dispensing of medicines for insured persons." The instructions state that any alteration of quantities or ingredients must be initialled by the prescriber before the prescription is dispensed; that lint, etc., should be ordered by weight, but when ordered by measure two dimensions must be given; that when medicated plasters are ordered one dimension must be 4 in. or a multiple thereof; and that the following articles, when prescribed, must be dispensed as indicated in parentheses in each case: Lin. ammon. co. (lin. ammon., B.P.), liq. sod. phenat. (liq. sod. carbolatis, B.P.C.), lot. plumbi c. spirit. (lot. plumbi

evaporans, B.P.C., but containing 20 per cent. of methylated spirit instead of rectified spirit), tinct. chlor. et morph. (tinct. chlor. et morph. co., B.P., 1914), ung. zinci co. (pasta zinci co., B.P.C.), chlorodyne (chlorodyne, B.P.C.), mucilage (for suspensions, mucilage of tragacanth, unless there would be danger of incompatibility), paraffin. molle or vaseline (flav. to be used in each case), bandages (unless particulars are given on prescriptions, white open-weave, 2 in. wide and 4 yds. long, or for "finger" bandages 1 in. wide and 3 yds. long).

Middlesex.—Mr. W. S. Glyn-Jones, M.P., presided at the bi-monthly meeting of the Middlesex Insurance Committee held at the Guildhall, Westminster, on October 1. Amongst the accounts, which made a total of 34,830l. 9s. 6d., were the following: To chemists for the medical year 1916, 4l. 8s. 5d.; ditto 1917, 3,182l. 5s. 2d.; the medical practitioners' drugs, 15l. 8s. 9d.; Pharmaceutical Committee, administrative expenses, 251l. 18s. 9d. The accounts were ordered to be paid.

Portsmouth.—The Insurance Committee met on September 27, when the Finance Committee presented a report of the Pricing Committee showing the pricing of prescriptions for July 1917 to have been as follows: Number of scripts, 8,158; amount allowed, 218l. 19s. 1d.; cost per script, 6.44d. The payments made in advance to chemists for the month of July were confirmed, and it was directed that the relative balancing payments should be made. In the Medical Benefit settlement, 1916, a sum of 1,204l. 14s. 2d. (being the whole of the "floating sixpence") was transferred from the Drug Fund to the Practitioners' Fund. The amount paid to chemists on the commercial Tariff was 3,062l. 19s. 6d., leaving 1,856l. 6s. 12d. still due to them from the Drug Fund, of which 1,204l. had been transferred to the Practitioners' Fund as stated, leaving only 651l. to be divided among the chemists. In moving the adoption of this report, Mr. Ordish said he hoped that the doctors would see to it that the insured persons had the very best form of prescriptions and the best drugs, seeing that they were being paid so well; the chemists would be paid in full, and there was every reason for everybody being satisfied. A refund of 319l. 18s. 11d. from the Exchequer grant to the Commissioners, being the difference between the commercial Tariff pricing and the "old" Tariff pricing, had enabled a sum of 231l. 13s. to be carried forward to the 1917 Drug Fund. The Special Committee on chemists' exemptions from military service reported that the present staffing of pharmacists in the borough was essential for the maintenance of the reasonable and efficient pharmaceutical service of the civil population, and a deputation had been sent before the Military Service Tribunal to represent the views of the Committee.

Sheffield.—The Pharmaceutical Committee met on September 28, Mr. A. H. Culverhouse presiding. The decision of the Insurance Committee that "lin. alb." does not constitute a proper prescription was discussed, and the Secretary is to inform panel chemists of that Committee's instruction that all such prescriptions are to be returned to the prescriber. The Insurance Committee's suggestion of a conference between the Panel and Pharmaceutical Committees regarding the dispensing of methylated liniments is to be further considered. The Local Associations Executive Committee sent a letter and report on the proposed terms for the 1918 Insurance dispensing. This was supplemented by the Chairman (who had attended the Conference in London), and, after discussion, it was decided to endorse the action of the Associations Executive and to ask panel chemists to support the scheme.

Notes.

MINISTRY OF HEALTH.—A meeting of representatives of Friendly Society and other Insurance workers was held at the Central Hall, Westminster, on September 29, to discuss the question of a Ministry of Health. Mr. Kingsley Wood, L.C.C., who presided, said that during the recess proposals had been formulated, and a Bill drafted at the instance of the National Insurance organisations setting up a Ministry of Health. The Ministry must be established before demobilisation and not afterwards. It is to be hoped, he said, that the Ministry would be outside party politics. It might be advanced that certain services should at once be included, but regard had to be given to controversies which are likely to be aroused, and it is desirable to obtain an agreed Bill if possible. A feature of the new Ministry is that it did not necessitate a "horde of new officials" or "half-a-dozen hotels." It would mean fewer officials and not more, for the existing staff of the Government Departments concerned could be utilised by a simple rearrangement of one of the Government buildings.

Trade Notes.

STRONTIUM BROMIDE for medicinal use is offered for immediate delivery by Perry & Hope, Ltd., 1 Leadenhall Street, London, E.C. 3.

SANOID HOT-WATER BOTTLE COVERS are in season. The prices are given in the announcement of Cuxson, Gerrard & Co., Ltd., Oldbury.

SANDALWOOD OIL.—The address of Whiffen & Sons, Ltd., should have been given last week as Lombard Road, Battersea, London, S.W. 11.

CHEMICAL MERCHANTS.—Samson Rosenblatt, 261 Broadway, New York City, U.S.A., buys and sells drugs and chemicals, as mentioned in his advertisement in this issue.

THE P.A.T.A. PROTECTED LIST was extended during September by the addition of Cleaver's shampoo-powders; Gregory & Co.'s goods (restored to list); Western Dental Manufacturing Co.'s specialities.

CACHETS WEPS.—The West-End Pharmacy Supply (R. Rios & Co.), 231 Regent Street, London, W. 1, announce that the price of these cachets has been advanced owing to the restrictions in France on the use of rice-starch.

AQUAPERIA.—A battalion of aquaperia is a striking feature of the advertisement in this issue of Camwal, Ltd. Chemists should push British-made aperient waters, and popularise them as much as possible.

WICKERED PERFUMES.—Price's, Battersea, London, S.W. 11, give particulars of a new line in taper-necked English-made wickered bottles of eau de Cologne and lavender water. These are packed in neat wooden boxes ready for despatch to customers.

GENATOSAN, LTD., 12 Chenies Street, London, W.C. 1, make an announcement regarding the issue of showcards which chemists should note. It is also stated that no persons engaged in business as retail chemists have any interests in the company.

LYSOL.—A good brand of surgical lysol is advertised in this issue by B. W. Hair & Son, manufacturing chemists, 104 High Holborn, London, W.C. 1. The lysol contains over 50 per cent. of cresylic acid, and is put up in several size packages. The prices are given in the advertisement.

PEPPERMINT TABLETS.—The popularity of peppermint confections with soldiers is due to the cooling and soothing effect which peppermint has on the mucous surfaces of the mouth. Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, make concentrated peppermint tablets which are packed in a handy form for sending to soldiers.

"AYRTON'S SUPPLEMENT" issued for October by Ayrtton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, is a pamphlet of forty-four pages containing revised prices and particulars of new goods which have been added. The business in future is to be conducted on a net basis, with the exception of pills, tablets, capsules, and patents. The Supplement is illustrated, and contains some attractive offers. Chemists who have not seen it should send for a copy.

DAISY TABLETS.—Daisy, Ltd., Leeds, announce in our advertisement pages that a new advertising scheme for Daisy Tablets is being launched. The "Sunday Pictorial" for October 21 is to contain a full-page advertisement of these tablets, and other well-known journals are to carry the company's advertisements. This is calculated to increase the sale of Daisy tablets, but in addition it is proposed to offer chemists a bonus of 20 per cent. on all orders of half to three dozen tins, the condition being that a showcard and a copy of the "Sunday Pictorial" advertisement be exhibited. The bonus offer holds good for a fortnight.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

148/62. Parkinson's pills.	125/63. "Dolabelle" shoulder-
127/77. Machinery for making	strap.
compressed face-powder:	143/49. Gramm's cream Gram's
makers.	mixer.
127/45. Princes' marking-ink.	

"I HOPE your child's thriving now, Mrs. Brown," said the affable chemist. "Too well, almost," was the quaint reply. "I wish she wouldn't grow so quickly; soon I shan't be able to weigh her on the scales I have at home."

Observations and Reflections.

By Xrayser II.

Why is Bloomsbury Square so Perturbed?

You ask this question at the end of your article entitled "Trespassers, Beware," and in view of the very small difference between the two schemes of the Society and its opponents with which the article deals the question is a natural one. Yet the answer is not very far to seek. The Society is perturbed because the present crisis is the culmination of a movement against its conduct of affairs, the last symptom of deep-seated and steadily growing distrust, to the existence of which the Council has shut its eyes as long as it was possible to do so. Symptoms as significant as this have been sufficiently abundant for some time, but they have not been so urgent; the movement has not been so organised, the symptoms have been more sporadic. But now (to vary the metaphor) we have a stricken field, the battle is joined, and the Society begins to realise the strength and purpose of the force opposing it.

The Letter of the Pharmaceutical Society

to the Secretaries of Pharmaceutical Committees with reference to the alleged attempt of certain "irresponsible and self-appointed" persons to approach the Commissioners as representatives of pharmacy otherwise than by "the recognised channel, which is their own Pharmaceutical Committee," is on the face of it a plausible document. The Society's case is not, however, so strong as it is made to appear, and there is much to be said for the view that pharmacists on the panel whose views the Society chooses to ignore are entirely justified in contemplating action for themselves. The letter is welcome as showing that the opposition which led to the meeting at Anderton's Hotel on September 25 has had at least some effect upon the Council: it has justified itself to the extent of forcing our leaders to take it into serious consideration, and it may yet further justify itself by forcing them to reconsider the situation. This, I confess, is my chief hope with regard to the movement.

The Meeting at Anderton's

was to some extent a fiasco due to causes in no way prejudicial to the movement, but the result is not unlikely to confirm the Council in its autocratic policy, unless other means are taken to show our invincible determination not to be overruled in this high-handed fashion. If the Society will not meet us by revising its own proposed terms, it might at any rate present ours along with its own as a "Minority Report," and arrange that the deputation to the Commissioners should include an adequate number of supporters of our view. If this were conceded, it would, I submit, be advisable for the promoters of the meeting to which I have twice referred to fall into line with the Council. If we cannot all agree as to the terms we are justified in demanding, it is nevertheless desirable not to quarrel about them if it can be avoided.

The Society's Attitude

towards the dissentients is, I believe, the only bar—is certainly the chief bar—to such a measure of agreement as would prevent a quarrel that might prove disastrous to our interests, and would certainly injure its own prestige. It plays the autocrat; bids us submit in silence to its will or accept the stigma of rebels. True, we may as individuals try to influence our own Committees, but concerted action is forbidden us. Either the Council must abandon this attitude, or our opposition must persist, even to the point of approaching the Commissioners on our own account—a course which, as you point out, might, after all, have distinct advantages of its own.

The Imperial Institute

was long regarded as an expensive white elephant, but it seems from your summary of a recent

report that it has thoroughly awakened, and is now doing good work for the Empire. The combination of science and commerce ought to be of immense service, and I look forward to the new arrangements under which the Consuls are to supply business information with great interest, particularly if the Imperial Institute is to co-operate in the work. The analysis of the soil on which the clove-plantations are grown in Zanzibar reveals the source of what is doing great harm everywhere—namely, sourness of the soil. Nothing will sooner impoverish the land, for the organisms that provide plant-food are effectually choked out of existence by acidity, and the simple expedient of adding lime to the soil often gets rid of all the trouble.

Sir Jesse Boot

sang *Jubilate* at the recent annual meeting of his company, and it is not surprising that he did so. Whatever may have been the effect of company pharmacy on pharmacy as an art, its success as a "business proposition" is undoubted, at any rate so far as Sir Jesse's own company is concerned. Even supposing that Sir Jesse somewhat exaggerates the benefits done by his system to pharmacy itself, he has certainly taught us something of the art of business, and has in this way compensated us in some measure for any direct harm he may have done us. In saying this I do not commit myself to approval of a slavish imitation of his methods as applied to pharmacies. I should like to see chemists' shops keeping the pharmaceutical flag flying more conspicuously than has been done up to now.

The American Writer

who signed himself O. Henry—his real name was William Sidney Porter—achieved sufficient fame to have his name coupled with Shakespeare's in the title of a much-advertised book of literary criticism, and has recently figured somewhat largely in our trade journals on account of the frequent references to the art and mystery of pharmacy which occur in his stories. The notion that he was himself at one time a chemist and druggist appears to be widespread, but we have it on the authority of Professor Leacock (an enthusiastic admirer) that his whole experience of work in a drug-store occupied only two weeks. This was in Texas, at the beginning of his career. The same authority tells us that a strict examination of his works shows him to have known the names of seventeen drugs, and to have acquired the art of rolling pills—rather a slender foundation for a realistic writer. O. Henry seems, however, to have been rather imaginative than realistic, which is no doubt the secret of his power. I refer to him here because it has become a habit among pharmacists to hunt up all the pharmacists of fiction, with the apparent object of showing how much they knew or did not know of our business. This is an interesting inquiry, and amusing enough as an exercise of natural curiosity, but it has nothing whatever to do with literature as such. From the point of view of literary criticism it does not matter a jot whether the "pharmacists of fiction" are true to fact, if only they are true to life, which is a very different thing. Flaubert's Homais is immortal not because he is exactly pictured from fact, but because he is a completely credible man, I might say a living personality, practising pharmacy, but not depending upon it for his hold upon us.

LEAFLET No. 280, published by the Board of Agriculture and Fisheries, on "The Cultivation and Collection of Medicinal Plants in England," is now out of print, and it has been decided not to reprint it.

ACRIFLAVINE.—Dr. R. Tanner Hewlett, working in the Bacteriological Department of King's College, London, finds that the germicidal power of acriflavine comes out very much lower than that stated by Browning and his co-workers. The difference between the two sets of results is probably due to the use in Dr. Hewlett's experiments of a much larger number of organisms than that employed by Browning and his co-workers. The result with pus is particularly poor, and many disinfectants equal or surpass it and have the advantage of a much more rapid action.—*Lancet*.

Peroxide of Hydrogen

(H₂O₂)

KINGZETT'S PRESERVED QUALITY.

INVALUABLE

1. As a wash for wounds, ulcers and sores.
2. For use in midwifery cases.
3. As a gargle in cases of sore throats.
4. As a mouth-wash.
5. For application in cases of bites from venomous insects.
6. For removing fruit stains from linen.
7. As an air purifier (by spray), &c.

SOLD IN 10 VOLUMES STRENGTH, AND PUT UP IN

16-oz. bottles, retailing at 1/6 each.

8 " " 1/2 "

4 " " 9d. "

Also in Bulk.

Trade Prices and Leaflet on application.

The "SANITAS" Co., Ltd., Limehouse, London, E. 14.

S.V.R. — S.V.M.

AND

CHEMISTS' WINES.

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CHEMICALS.

We solicit your Inquiries for—

Crushed Linseed (Mumford's quality, finest obtainable), Whole Linseed, Starch Powders (Maize, Wheat, Rice and Potato), Glauber Salts, Hypo, Bi-Carb. Soda, Sulphur, Fuller's Earth, Tart. and Citric Acids, Cream Tartar, Kaolin, Liquorice Pdr. and Juice, Epsom Salts, Boracic Acid, &c., &c. Also 1d. Pkts. Fuller's Earth, Violet Pdr., Starch Pdr., Liquorice Pdr., Nursery Pdr., Boracic Acid Pdr., &c.

Sole Proprietors of "Pylitna Powders," the internal specific for Hemorrhoids. Special terms for co-operation.

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Unique colloidal solutions, absolutely stable, non-toxic, non-irritant. Write for details.

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Export and other Buyers should apply for a List. Foreign prescriptions dispensed for Pharmacists.

Sugar is not required—if

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Editorial Articles.

The Transition Period.

THE DIFFICULTIES which Germany will encounter at the end of the war are beginning to be recognised, and various schemes and guiding principles are being put forward for what is called the "transition period." The Imperial Commissioner for Transition Economy corresponds to our Minister of Reconstruction, and to him all manner of petitions are being sent. The following recommendations in a memorial from the Hamburg Association of Pharmaceutical Industries, to which we have referred before, are of interest to our readers:

"The pharmaceutical industry has a particular importance in peace-time.

(1) On account of its supplying the country with the preparations needed for the prevention and cure of disease.

(2) On account of its special capacities for helping to restore German foreign trade, because:

(a) In comparison with other branches of industry, it requires only small quantities of raw material and hence takes up little cargo-space, and

(b) because its products are much in demand in foreign countries and represent a comparatively high pecuniary value.

On these grounds the pharmaceutical industry considers that it has a claim to special consideration in the distribution of raw material during the transition period. The following suggestions are also submitted:

(1) Industries possessing 'peace importance,' which require only relatively small quantities of raw material in comparison with the industries chiefly consuming the same material, should be given special consideration, and as far as possible be fully supplied from the first.

(2) Anticipatory contracts made by firms during the war, where the quantities involved are not too large, should be allowed to be completed wherever possible to the extent required for the own consumption of the firms.

(3) Firms should be allowed to purchase on their own account abroad, on giving a guarantee that the raw material brought into Germany will be treated in their own works and exported abroad again as manufactured articles of appreciably higher value.

(4) The interests of the established wholesale and import trade should be regarded as much as possible."

We believe that the Pharmaceutical Society has been consulted on several *post-bellum* problems, and that a Report on the drug-supply was made to the Government. The Report, which was of exceptional interest, is not, however, to be made public at present. Dr. Addison, the newly appointed Minister of Reconstruction, has been emphasising the fact that the Germans are already busy on reconstruction, whereas some critics in this country questioned the necessity for the new Ministry of Reconstruction. We believe that the functions which are before the Ministry are of almost equal importance with the necessity for the Allies winning the war. Dr. Addison mentioned that the Germans are so anxious about their supplies of raw materials that they have even tried during the war to acquire control over the mineral deposits in England. Dr. Addison does not think the unemployment problem will be so formidable as it looks, but all the same we should be prepared to cope with any difficulties which may arise. It is estimated that the places in industry of about a million men are being kept open for them. Another large class will be immediately required on shipbuilding and on the railways at home, and abroad. There is the question of the shortage of raw materials, which depends upon the shipping that will be available, but we hope that the peace terms will be sufficiently severe to deprive Germany of any advantage from her piracy of the seas. Dr. Addison promises to consult

the different trades as to the best way to deal with the shortage of raw materials, and he advises traders to associate and discuss the situation so as to have schemes to place before him. He complains of the difficulty of getting traders to co-operate. The Pharmaceutical Society, the Society of Chemical Industry, and the Association of British Chemical Manufacturers can play useful parts in the transition period by obtaining the opinions of the trades which they represent and making representations accordingly to the Ministry of Reconstruction. The formation of the Chemical Committee to advise the Minister of Reconstruction, which is referred to elsewhere in this issue, is an outcome of the deputation which waited on the Minister (*C. & D.*, August 11, p. 35). It is to be regretted that there is upon the Committee no representative of the drug-trade in respect of the fine chemicals used in medicine. Mr. John Anderson, of the National Health Insurance Commission—excellent Civil Servant that he is—has not the knowledge of the drug-trade which should be required of a member of this Advisory Committee who is capable of representing the manufacture and supply of medicinal chemicals. It is, we hope, the intention of the Ministry of Reconstruction to appoint an Advisory Committee with knowledge of the drug-trade. There are plenty of pressing problems which it could advise upon. We note that at the opening of the session of the School of Pharmacy on Wednesday, Lieut.-Colonel E. F. Harrison referred to some of the problems which confront chemical industry. He said that as the complexity of products increases it becomes increasingly impossible for their manufacture to be carried out by small concerns operating without close connection with others; a firm must either be so large that it can carry out a long series of operations with large quantities of material, producing its own accessories and using its own by-products, or it must be in such close co-operation with other firms that it is regularly supplied with the accessories required and has suitable outlets for its by-products. Such conditions will hardly be secured, will certainly not be most economically secured, by trusting to the blind operation of the ordinary laws of supply and demand. Careful planning beforehand and organisation of the whole field of work are necessary. The same necessity arises in connection with the marketing of the products. A firm can hardly be expected to lay out huge sums on plant, materials, laboratories, etc., for the production of some substance on the large—that is, the economical—scale, if it is then to find that several other firms have done the same thing, and there is such a glut of the product on the market that its manufacture becomes unprofitable. Here, again, planning beforehand, co-operation, and systematic allocation of particular work are required. The chief point urged is that the conditions after the war will necessitate the most economical methods of industry and commerce for most businesses, and that pharmacy and the manufacture of chemicals will be no exception to this rule.

Canadian Potash.

RECENTLY we briefly referred to the fact that Canada was producing potash from feldspar, and with every promise of commercial success, as there are unlimited supplies of feldspar rock available in Canada and in the United States, where in some sections the potash-contents run from 10 to 14 per cent. It may not be generally known that previous to the rise of the German potash-industry almost three-fourths of the world's production of potash came from Canada, and for many years the export of potash and pearl ash ranked next to lumber in the shipment of forest-produce to other countries. In many parts of the country the manufacture of pot and pearl ash became a specialised industry carried on all the year round. Men were employed in going through the settlements collecting the ashes saved by the farmer, who burnt his timber not more for the sake of clearing the land than for the sake of the money obtained from the sale of the ashes. Many farmers in the middle of the last century had their own pots and converted their wood into potash, while every new settlement established

an "ashery" in which pot and pearl ash was made. The highest development of this industry was in 1871, when 519 asheries were in operation in Upper and Lower Canada (Ontario and Quebec) alone, but by 1891 they had dwindled to 128 for the whole of Canada, and now the industry on this plan is almost extinct, the exports during the last few years up to the outbreak of war being only about 500 barrels per year, valued at about \$25,000, or \$50 per barrel. While during the last century Canada was the world's chief producer of potash, she has now become an importer, the imports before the war averaging about 250,000 lb., valued at about \$9,000. During the first half of the century Great Britain was the world's chief market for potash, and the pre-eminence of Canada in this industry is indicated by the fact that in 1831, *e.g.*, Great Britain imported potash and pearl ash to the amount of 228,757 cwt., of which 169,891 cwt. came from Canada, 15,835 cwt. from the United States, and the balance from Russia and Poland. At that time potash entered England free of duty from Canada, but until free trade was adopted there was a duty of 6s. per cwt. on American potash. The price in England in the 'thirties was about 25s. 6d. for pearl ash and 24s. 6d. for potash. With the clearing of the forests of Eastern Canada the potash-industry declined, and this decline was hastened by the opening of the great Stassfurt deposits. Since the war cut off the German supply there has been a revival in the Canadian industry, and the price of potash, which was about 40s. in July 1914, is now from 200s. to 205s. per cwt. nominally for Montreal seconds and firsts respectively, but the supplies are quite inadequate. The manufacture of potashes from wood will never again be undertaken in Canada on the old basis, and, as the Allies have determined to be self-dependent, the present problem of producing potash from feldspar, which is a vaster source than has ever been exploited from wood, is likely to develop on a large commercial scale as soon as all the obstacles have been removed.

Doing without Germany.

VII.—Italy.

SINCE Italy joined the Allies by declaring war on Austria-Hungary in May 1915, great hopes have been entertained, both in the United Kingdom and in Italy, that there will be a marked expansion of trade as a result of the war. The feeling in Italy against future trading with Germany is acute, and it is expected that our Ally will be unwilling to resume full commercial relations with that country for a long time to come. The anticipated set-back to German trade, however, is likely to be temporary only unless British firms awake to the fact that more practical and up-to-date methods must be adopted for cultivating the Italian market. As with other countries, Germans had got a stranglehold on the Italian chemical-trade, and even now while the war is in progress we hear that they still lay traps and snares to maintain their former control by means of German agents of Italian nationality who solicit consumers of chemical and pharmaceutical products to make contracts for deliveries after the war. This is being done in order to circumvent the efforts of those enterprising Italian firms who are laying down new plant for the production of chemicals and others who have commenced manufacturing pharmaceutical products on a small scale since the war broke out. If, after the conclusion of peace, Italy were to continue the present Customs Tariff which has hitherto been favourable to German industry, these makers would, of course, be crushed immediately and automatically. It is possible, however, that Italy may free herself from the subjection to Germany by the imposition of high tariffs on German chemicals, or, in other words, take precautions against "dumping," especially in the case of new industries. We may here add that the Italian Government has taken the necessary steps to terminate at the end of the present year all the existing commercial treaties and arrangements between Italy and other States by which Italian rates of Customs-duty on various classes of goods are "conventionalised," and that it is proposed to frame a new tariff. News from Italy

has been scarce in regard to what progress has been made during the war in the manufacture of fine chemicals and pharmaceutical products, and we have no approximate figures as to output. Italy, being thrown on her own resources, has, of course, had to develop her war-material industries quickly, and she appears to have done it well. Many large works manufacturing munitions and explosives are already taking up the manufacture of several pharmaceutical chemicals, but progress is naturally slow, as it is impossible to organise effective resistance to German products in a few months. It has been reported that about 170 million lire (about seven millions sterling) is invested in the Italian chemical-industry, of which about sixty million lire is in the pharmaceutical branch, forty millions in electro-chemical industries, and sixty-five millions in the fertilisers branch. Altogether the annual production is reckoned approximately at 180 million lire, about one-third of which is chemical manures (ammonia sulphate, superphosphates, cyanamide); then follow copper sulphate, thirty millions; electro-chemical products (calcium carbide, caustic soda, chlorine, nitric and hydrochloric acids, hypochlorites, etc.), fifteen millions; tartaric and citric acids and cream of tartar, twelve millions; mineral acids, seven millions; and, lastly, general chemicals, such as boric acid, liquid carbonic acid, hydrogen peroxide, oxygen, carbon bisulphide, mercury and other metallic salts. Pure chemical products are made in Italy to a value of about fifteen million lire, and it was in this group German trade had increased proportionally by leaps and bounds. In 1913 Germany sent to Italy twenty-three millions sterling odd of manufactured products of all kinds (*plus* coal 1,335,000*l.*), whereas the total imports from the United Kingdom were 10½ millions sterling (*plus* coal thirteen millions sterling). In the past, German traders have cultivated the Italian market either by personal visits or else by means of well-trained commercial travellers speaking fluent Italian; on the other hand, many British traders conduct their business in Italy by correspondence with agents they have never seen. The trade-grouping system adopted by Germany enabled several large firms to work together in conjunction, and this had the effect of assisting German penetration. There is no doubt the majority of people in Italy would prefer to do business with the United Kingdom if things were made easier for them, and it is up to the British manufacturers to be more painstaking as regards the Italian market; advantage should be taken of the present conjuncture to establish a firm footing, otherwise it is to be feared that after the war Germany will rapidly make good the ground she has now lost.

Flour Restrictions.

THE DEFINITION of "flour" in the Public Meals Order is as follows:

The expression "flour" shall mean any flour for the time being authorised to be used in the manufacture of wheaten bread and any barley flour, barley meal, or maize flour.

According to the Manufacture of Flour and Bread Order (No. 3) wheaten flour is to contain not more than 25 per cent. and not less than 10 per cent. of flour obtained from the cereals mentioned in the principal Order. The cereals referred to are "flour obtained from rice, barley, maize, maize semolina, oats, rye, or beans." In view of the latest Order of the Food Controller (*C. & D.*, September 22, p. 33) restricting the use of flour without a licence, in various manufactures, such as baking-powders, blancmange-powders, custard-powders, etc., there was a doubt as to whether rice-flour could be employed. Evans Sons Lescher & Webb, Ltd., have been informed by the Ministry of Food that no licence is required for the use of rice-flour in the manufacture of baking-powder. Rice-flour may only be used in articles of food.

To Students.

AN ANNOUNCEMENT is made on another page in regard to the Corner for Students. Apprentices or students are invited to apply for samples of a chemical

salt, and to send in reports for comment and adjudication. It is fifty years ago, next January, since the Corner was started as one result of the passing of the Pharmacy Act, 1868, which demanded better education for those who were destined to acquire the new qualification. Several generations of students have benefited by the Corner, and although at present almost all those of military age are fighting for the emancipation of the world from Prussian barbarism, there are the younger apprentices and women assistants to whom we look to "carry on" until the men of military age return—full of the enthusiasm of victory over tyranny and treachery—to resume the studies which were interrupted by the war.

A New Drug.

THE "British Medical Journal" refers to a wonderful new drug which is being tried as an internal application in the treatment of men with callous wounds. Tethelin is the name of the drug, which is extracted from the anterior lobe of the pituitary body, and has remarkable influence in accelerating the growth not only of the Flexner-Jobling transplantable carcinoma of rats, but also of the granulation tissue in superficial wounds in mice. It is a hygroscopic and unstable substance, soluble in water and in alcohol, ether, and carbon tetrachloride. Its chemical composition is obscure, but it breaks down on hydrolysis, yielding unsaturated fatty acid soaps and inositol, and is said to contain an imine-azoyl group. Tethelin was discovered by Dr. T. Brailsford Robertson, professor of biochemistry and pharmacology in the University of California, who has given to the Regents of the University his patents for the production of this substance.

American Doctors in England.

THE "British Medical Journal" states in reference to the arrival in this country of American medical men for service in military hospitals (*C. & D.*, September 22, p. 34), that the War Office will no doubt find justification for the immediate employment of these doctors in the communication from the Central Medical War Committee "that no more medical men can be called upon to take commissions in the R.A.M.C. without seriously endangering the supply of doctors for the treatment of the civil community." It is stated that the medical officers whose places are being taken by the Americans were in some cases curiously treated, and no acknowledgment was rendered of their services. It is, however, contemplated to address letters of thanks, but the "British Medical Journal" states that the incident has produced a very unfortunate impression.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, October 9.

Eastbourne Pharmacists' Association, 2A Terminus Buildings, at 8 p.m. Annual meeting and election of officers.

Wednesday, October 10.

Progressive Pharmacy Club, Arundel Hotel, Arundel Street, London, W.C., at 7 p.m. Formal opening of the Club.

Manchester Pharmaceutical Association, School of Technology, at 3 p.m. Mr. E. White, President of the Pharmaceutical Society, on "My Fifth Year."

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 7.45 p.m. Social evening, to which ladies are invited. The President and Mrs. Jack Evans will receive the members and visitors.

Thursday, October 11.

North London Pharmacists' Association, Progressive Pharmacy Club, Arundel Hotel, Arundel Street, London, W.C., at 3 p.m. Discussion on "How Progress is Possible in Pharmacy."

"SURELY A MAN does not cease to be a duly qualified medical practitioner because he takes up his Majesty's commission in the Army, whether as a medical officer or a combatant," writes Dr. Wm. Martin in the "British Medical Journal." He is referring to the absurd construction which the Pharmaceutical Society is seeking to place on the Narcotic and Stimulant Drugs Order.

Pharmaceutical Society of Great Britain.

Council-meeting.

THE monthly meeting of the Council was held on October 3 at 16 Bloomsbury Square, London, W.C. The President (Mr. E. White) was in the chair, and the other Councillors present were the Vice-President (Mr. E. T. Neathercoat), the Treasurer (Mr. W. H. Gibson), and Messrs. F. E. Bilson, J. H. Cuff, W. L. Currie, J. W. Deakin, F. J. Gibson, R. L. Gifford, A. Hagon, F. G. Hines, A. H. Jenkin, J. Keall, L. M. Parry, P. F. Rowsell, F. P. Sargeant, and H. Skinner. The President intimated that Mr. J. F. Harrington, Mr. J. R. Young, and Mr. A. S. Campkin had written expressing their regret that they would be unable to attend.

HONOUR TO PROFESSOR HERBERT JACKSON.

The PRESIDENT said that before proceeding with the business of the meeting, he desired to mention that that day Professor Herbert Jackson would be invested with the honour of K.B.E. which had been conferred upon him by the King (C. & D., September 1, p. 46). He was sure it was their unanimous wish that the congratulations of the Society should be sent to him on the occasion. Everyone acquainted with Professor Jackson had been impressed with his charming manner and great modesty, but they also had knowledge of the remarkable technical skill which he possessed, and for these reasons they felt sure that the honour was richly deserved. The Council were glad to think that one of the Examiners of the Society had been selected for such distinction, and he felt sure that all of them would approve of sending him a letter of congratulation on the occasion of its bestowal. (Hear, hear).

The suggestion was unanimously agreed to.

The minutes of the previous meeting were read and confirmed.

ELECTIONS AND RESTORATIONS.

A number of members and student associates were elected, while ninety-four persons were restored to the Society, and one person to the Register of Chemist and Druggists. The Registrar's report stated that sixty-five "apprentices or students" had been registered.

CORRESPONDENCE.

A letter was read from the Institute of Chemistry suggesting a conference with representatives of the Society on the use of the title "chemist." On the suggestion of the PRESIDENT the proposal was discussed in private. The result was an agreement that the points at issue should be discussed at a joint conference between representatives of the Society and the Institute.

A letter was also submitted from the Red Star Society asking the opinion of the Council on a suggested scheme for the provision of doctors and chemists for the assistance of civilians in air-raids by which the doctors would be adequately compensated for the services they rendered, and the chemists for the materials they supplied. The subject-matter of this letter was also dealt with *in camera*.

A letter was read from the Blinded Soldiers' and Sailors' Care Committee asking the assistance of the Society in interesting the trade (wholesale and retail) in the Blinded Soldiers' Children Fund. This was also considered in Committee.

On the proposal for the establishment of a Standing Committee to represent professional bodies on the Schools Examination Board, a letter was read from the Board of Education, stating that Mr. Fisher, the President, was favourable to the formation of the suggested official link between professional bodies and the Examination Board. He was of opinion that there should continue to be an interchange of views between his Department and the professional bodies with a view to a scheme satisfactory to all concerned being formulated. He expressed his appreciation of the difficulty, especially in these busy times, of professional bodies taking the initiative for the formation of a Standing Committee, but he added that he would be glad to undertake that function if these bodies would send in their nominations of suggested representatives. There was no reason, he added, why a Standing Committee should not be arranged in sections representing groups of allied interests. The PRESIDENT reminded the Council that some time ago discussion took place on the points raised in the letter from the Board of Education. He thought it would be well to maintain touch with the Board with the view of securing some uniformity in the education necessary for the qualifying Preliminary examination for admission to

the various professions. He suggested that the Council should accept the suggestion of Mr. Fisher.

A letter was read from the University of Liverpool asking for a continuance of the subscription of the Society made during the past two or three years in connection with the Annual Tables of Constants and Numerical Data. The request was agreed to.

PHARMACISTS IN THE ARMY.

A letter was read from the Bury and West Suffolk Pharmacists' Association enclosing a resolution urging the Society to press for a better status for pharmacists in the Military and Naval Forces such as is observed by other European nations. A similar resolution was also forwarded by the Gloucester Pharmacists' Association, further suggesting that a pharmacist employed in the Army or Navy in performing professional duties should be given a rank not lower than that of Quartermaster-Sergeant. These communications were discussed in Committee.

COPPER SULPHATE.

The PRESIDENT stated that Mr. Campkin had written to the effect that the Department is not proposing to fix any retail price for copper sulphate for seed-dressing or similar purposes.

FINANCE.

The Secretary then read the report of the Finance Committee. The financial statement submitted is summarised as follows:

The receipts of the general fund since the last meeting (including a balance of 135*l.* 18*s.* 11*d.*) amounted to 3,201*l.* 0*s.* 9*d.*, made up as follows: Penalties and costs, 166*l.* 13*s.* 5*d.*; "Pharmaceutical Journal" and publications, 99*l.* 9*s.* 10*d.*; dividend and interest, 60*l.* 12*s.* 3*d.*; subscriptions, 189*l.* 10*s.* 6*d.*; registration-fees, 147*l.*; restoration-fees, 1*l.* 1*s.*; certificates of qualification, 4*l.* 8*s.*; "The Chemist's Annual," 4*l.* 5*s.*; sale of library books, 1*l.* 15*s.*; rent, 6*l.*; examination-fees, 386*l.* 9*s.*; deposit, 2,000*l.* After deducting payments ordered at last meeting amounting to 2,625*l.* 5*s.* 11*d.* there was a balance of 577*l.* 14*s.* 10*d.* Sums amounting in the aggregate to 1,632*l.* 11*s.* 10*d.* were authorised to be paid. The balances on the Benevolent Fund were: Current account, 837*l.* 7*s.* 6*d.*; donations account, 931*l.* 18*s.* 7*d.* Orphan Fund, 125*l.* 2*s.* 7*d.*

The TREASURER, in moving that the report and recommendations be received and adopted, mentioned that the Committee had taken 2,000*l.* from the deposit account, but it had previously been arranged that that amount was only to be deposited for a time. All the balances are satisfactory, and especially so with regard to the Benevolent Fund.

The report was adopted.

BENEVOLENT FUND.

The Benevolent Fund Committee recommended the selection of ten additional annuitants, to be elected on December 11, at 12 noon. It was suggested that the ten persons should be selected without a contest. Mr. F. C. Clayton, Ph.C., a former Lord Mayor of Birmingham, has given a donation of 500*l.* to the Benevolent Fund. Other donations were as follows: Mr. Percy Knott, Bolton, 5*l.* 5*s.*; Mr. Herbert Knott, 5*l.* 5*s.*; Mr. F. J. Martin, Worthing, 5*l.* 5*s.*; Mr. J. Lorimer, Finsbury, 14*l.* 14*s.*; Birmingham Pharmaceutical Association, 5*l.* 5*s.* A legacy had been received from the executors of Mr. J. J. Petrie amounting to 44*l.* 15*s.* 9*d.*, and the following special contributions were acknowledged: Blain & Hankinson, Manchester (collected in weighing-machine), 14*s.* 6*d.*; G. R. Stamp, 52*l.* 10*s.*; Portsmouth Pharmacists' Association, 2*l.* 2*s.*; S. R. Powell (amount in collecting-box), 19*s.*; and G. S. V. Wills, Clapham (amount in collecting-box), 14*s.* 6*d.*

Mr. BILSON, moving the adoption of the report, remarked that the Committee had reviewed the cases of suitable candidates for annuities, in accordance with the wish expressed by the Council two years ago, and they had again decided to recommend that there should be no contest. Considering the very satisfactory state of the Fund, the Committee agreed to recommend that 300*l.* should be spent on the ten additional annuities. This would increase the number to a total of fifty-one. Having referred to the various donations, Mr. Petrie's legacy of 44*l.* 15*s.* 9*d.*, and the other special contributions, Mr. Bilson described Mr. F. C. Clayton's donation of 500*l.* as a really magnificent one. (Applause.) Mr. Clayton was an old student of the Society's School.

The Secretary read the letter received from Mr. Clayton, which was as follows:

"I was apprenticed in '59 to the firm of Harvey Reynolds, of Leeds, and in 1865 passed the Major examination of the Pharmaceutical Society, of which I continue to be a member. My connection with pharmacy ceased shortly afterwards, but as I still occasionally look through the 'Journal' I see the Benevolent Fund is a very useful adjunct of the work of the Society. For the sake of 'Auld Lang Syne' I have pleasure in forwarding 500*l.* in Government bonds to the Benevolent Fund, receipt of which please acknowledge. Trusting the Fund may be a blessing to some of the poorer members of the Society in their old age." (Applause.)

LIBRARY COMMITTEE.

The report of the Library, Museum, School, and House Committee referred to work being carried out in the Research Laboratory, and suggested that during the war the Bell and Manchester Scholarship competitions should be suspended, subject to this course being consonant with the advice of the Society's solicitors.

The PRESIDENT, moving the adoption of the Committee's report, said the opinion seemed to be that it would be a wise thing to suspend the Bell and Manchester Scholarships because, owing to conditions known to them all, there are very few candidates. The Committee do not desire to complicate matters by doing work which would be found to be unnecessary in view of the fact that most men are away and had not a chance to compete. They therefore thought it would be advisable to agree to a suspension of the scholarships during the war, but they had decided not to do anything definite at the moment until such time as they had thoroughly ascertained their obligations to the trustees. According to the report, he was expected to make an announcement in regard to entries for the course in practical bacteriology. It had been found that attendance in the laboratory for three consecutive days was essential. This condition rendered it impossible for people to take the full course at the present time, for not even those who are at home can be released for such a long period of time under existing conditions. There were only three entrants, and if Dr. Burnet agreed with an experimental course, the Committee would ask the Council for authority for the course to run on. What they were anxious to find out and show was whether such a course of instruction, carried out in the way suggested, was going to lead to the production of the type of man who would perform work of practical value to the community in after-life. Dr. Burnet had been consulted, and he thought it might be arranged to hold an evening course for the coming winter. If the Council approved, this course might commence in November.

Mr. SKINNER expressed the opinion that with such a syllabus of lectures as was issued by the Society last spring it was unlikely that any big number of students would be attracted. It is necessary that the syllabus should be very carefully drawn out, so that individuals should know exactly what they are going to get.

Mr. JENKIN said that attendance at the laboratory for three consecutive days for ten weeks might be necessary in a full course of study of practical bacteriology, but it seemed to him an absurdity to suggest that they should not proceed with a practical course for those who had taken a theoretical course, and who were too much occupied to attend for three consecutive days a week for ten weeks. They might possibly, in order to go through one specific branch, arrange three days for one week, but by taking up portions of the work in another way they would be enabled to gain quite sufficient information to permit them to speak with authority on the subject, which was the main object of a great many of those who undertook the lectures, rather than with the idea of putting the knowledge which they acquired into practice. He thought they could make a secondary scheme, such as the suggested evening bacteriological demonstrations, even more useful than the lecture demonstrations.

Mr. DEAKIN, referring to the proposed suspension of the scholarships, suggested that due regard should be paid to the young fellows in the Army who would otherwise be eligible to enter for them. It would be wise to retain for them for the next two years the same rights they had prior to joining up.

The PRESIDENT stated that Mr. Deakin's suggestion had already been acted upon.

The report was then adopted.

GENERAL PURPOSES COMMITTEE.

The report of this Committee was next considered. The interim report of the Local Associations Executive Committee relative to the representation of pharmacy on the Advisory Committee and other points connected with National Insurance had been considered, and it was recommended that authority should be given to the Executive Committee to proceed with their negotiations with the Commissioners. With reference to the distribution of sugar to pharmacists in retail practice, it had been reported that the Ministry of Food had acknowledged the claim of retail chemists and druggists, and that they should be permitted to claim as manufacturers. They would be permitted to have 50 per cent. of their 1915 requirements. A complaint had been received from the medical officer of the Venerable Clinic of a London hospital against a pharmacist. Investigations having been made, it was recommended that a reply should be sent that the accused person appears to have complied strictly with the provisions of the Act.

The report was adopted without comment.

A CONSULTATIVE COMMITTEE.

Mr. SKINNER, in terms of previous notice, moved:

"That it is desirable to set up an Executive Committee for consultative purposes in dealing with questions arising between the various meetings of the Council."

In support of this resolution Mr. Skinner said that he had been induced to submit it in consequence of one or two facts which had impressed themselves on his mind during the past two or three months. When he began to study the life-history of the various members of the Council, past and present, he realised that too much attention was paid to the fact that some resided in London. It would be noticed that most of the Presidents of the Society in the past were London men. He happened to mention this to one who had been a Vice-President, and inquired of him: "Why don't you go on to the Presidency?" The reply he received was, "It involves too much work and being practically every week in London." It struck him that many of those who had got as far as the Vice-Chair are in the same position, and that they are probably expecting too much work from the President and the Vice-President. If the work of the Society were distributed a little more evenly they would not only bring more members of the Council to take part in the administration, but enable them to gain additional experience as time went on which would enhance the value of their services to pharmacy. If an Executive were formed consisting, say, of the President and Vice-President, with three members whose membership would not be fixed, there would be such a continuity that all members of the Council would in the course of time acquire an administrative knowledge that would be of the utmost value. When the question of the election of Vice-President, and ultimately of President, arose, these men would in consequence be less hesitant about accepting either office on the ground that they did not possess the necessary knowledge of administrative work.

Mr. HINES, in seconding, said that the need for such an Executive as the one suggested by the resolution had been made apparent to him in the small amount of work he had been able to perform as a member of the Council. He fully endorsed all that Mr. Skinner had said.

Mr. CURRIE said that as a past Vice-President who was well accustomed to all the work, in order to maintain the past excellent traditions of the Council, and in view of the confidence reposed in the past-Presidents of the Society, he would move the previous question.

Mr. BILSON seconded this, and it was carried by sixteen votes to two. Mr. Skinner's resolution in consequence fell through.

This was all the public business.

Opening of the School of Pharmacy.

THE seventy-sixth session of the School of Pharmacy was opened on the afternoon of October 3 in the Lecture Theatre, 17 Bloomsbury Square, London, W.C., when the inaugural address was delivered by Lieut.-Colonel E. F. Harrison, C.M.G., and the prizes won during the past term were distributed to their respective winners by the President of the Society (Mr. E. White). There was an exceptionally large attendance considering existing war conditions, the larger proportion of the audience being ladies. The chair was occupied by the President of the Society (Mr. E. White).

REPORT ON THE SCHOOL.

In opening the proceedings the PRESIDENT called upon the Dean (Professor Greenish) to read the report on the school.

The DEAN of the School, in the course of his statement, said that the seventy-fifth session which terminated last June was marked, as its predecessor, by the number of students being considerably below the average of previous years. With the reason for this they are all quite familiar, and it is reflected in the fact that of the thirty-four students who attended the school only fifteen were men. Nine students entered for the complete advanced or Major class, and nineteen for the complete Elementary or Minor class, the remainder taking, for various reasons, either single classes or part only of the complete session. Of the nine Major students eight presented themselves for examination, and of these one only failed to satisfy the examiners. Of the nineteen Minor students sixteen presented themselves and two failed, and of the part-time students two were candidates and both passed. The total pass list of twenty-six out of twenty-nine was eminently satisfactory, and in itself sufficient evidence of the maintenance of uniformly steady and systematic work throughout the session. Considering that the conditions under which the work had to be carried on were not such as would conduce to the production of the best results, he thought the students had acquitted themselves with the very greatest credit. Although the number of students entering for the

prizes was smaller than usual, the competition was keen, and the winners were to be heartily congratulated on their success, while those who competed but failed to secure a prize deserved commendation for their separate though unsuccessful efforts. In the *personnel* of the School staff several changes had, as was natural, taken place. Mr. Charles Warner had resigned the post of Lecturer in Botany, which he had held for the last five years, with the best results to the students of the School. Mr. Warner's work both as a student and teacher had been attended with conspicuous success. Mr. Warner had been succeeded by Mr. James Small, who was Bell Scholar in 1910. The School had also been fortunate in enlisting the help of another past Bell scholar, Miss Ella Caird, who had a most successful career as a student.



Photo.] Elliott & Fry, Ltd.
PROFESSOR H. G. GREENISH
(Hanbury Medallist).

The post-graduate successes gained by the students during the session had naturally not been numerous, but he was glad to record that Miss Caird and Mr. Baynes had both passed the Intermediate examination of the Institute of Chemistry. The staff also offered its congratulations to Lieut. Colonel Harrison, a former Bell scholar and distinguished student of the school, and to Lieut. Colonel Crossley, who was for several years its Professor of Chemistry, upon both of whom the Order of St. Michael and St. George had been conferred. During the past session several former students of the school had made great sacrifices in defence of their country, among them Mr. C. T. Bishop, who for some time was demonstrator in pharmacy, Mr. Goundy, and Mr. S. R. Hall. To Mr. J. C. Jincks, a former Bell scholar and demonstrator in chemistry, and to Mr. Booth, who had both gained the Military Cross for conspicuous gallantry, their thanks and congratulations were due. For the session which is about to open thirty-three full-time students have entered already, as against twenty-eight last year.

The PRESIDENT assured the Dean that all present sympathised with him and the School staff in the difficult task they had to cope with in linking the School with success during the past session under very exceptional and disadvantageous circumstances. He then proceeded to present the Council prizes, the winners of which were announced in the *C. & D.*, May 5, p. 40, and those awarded in the School of Pharmacy examinations, the names of winners of which were given in the *C. & D.*, July 7, p. 46. After handing the prizes and certificates to them the President shook hands with and congratulated each of the recipients.

HERBARIUM REPORT.

Mr. Chater, on behalf of Mr. Holmes, the adjudicator of the herbarium prizes, read that gentleman's report on the exhibits submitted to him. This stated that the herbarium sent in by Mr. H. Spencer, Accrington, was a comparatively small one, as Mr. Spencer was called up for military service on May 25, and was unable to complete it. So far as it went it was excellent. The specimens were beautifully dried and mounted—well enough, indeed, to be used for photographs of the plants. The colours were well preserved, and the important and characteristic features were shown. The collection contained seventy-four specimens belonging to twenty-nine different natural orders. The one sent in by Miss Doris May Moss, of Cambridge, contained 140 specimens belonging to 45 natural orders. The specimens were not nearly so carefully selected and so well preserved as in Mr. Spencer's collection. The one forwarded by Miss Kathleen Harrison, East Finchley, contained 126 specimens, belonging to 33 natural orders.

A great deal of care had evidently been bestowed on the illustration of the botanical characteristics of each plant. Mr. Holmes recommended that the silver medal be awarded to Miss Kathleen Harrison, the bronze medal to Mr. Harry Spencer, and a certificate of honour to Miss Doris May Moss.

SCHOLARSHIP AND PRIZE COMPETITIONS.

Mr. GAMBLE, one of the examiners, reported on the competition for the Council prizes. He stated that the number of candidates for these was comparatively small, but it



Miss ELSIE WOODWARD
(Bell Scholar).



Mr. G. RICHARDSON BOYES
(Bell Scholar).

was as many as they could expect at the present time. The candidates deserved congratulations for the papers they sent in.

Mr. Hampshire read a report on the examinations for the Jacob Bell Memorial Scholarships (see *C. & D.*, July 7, p. 47).

The PRESIDENT mentioned that on that occasion the Ransom Foundation Scholarship would be initiated. The first Ransom Fellow to be appointed was Mr. Edward Robinson Baynes. In presenting the scholarship to Mr. Baynes the President expressed the hope that he would be the first of a long list of men who would do credit to the Society and to the founder of the scholarship in the pursuit of the study he had mentioned.

THE HANSBURY MEDAL.

The PRESIDENT, in presenting the Hanbury Medal to Professor H. G. Greenish, said that this distinction was awarded every two years to some gentleman who had distinguished himself particularly in the acquisition and exposition of knowledge relative to the natural history of drugs. In the list of the awards there appeared the names of many men who had been celebrated in the realm of science. That day they proposed to add to it the name of Professor Greenish. (Applause.)

He need only report the work he had done during the past three or four years, at least during the war period, to substantiate his claim to the distinction that was about to be presented to him. (Applause.) Addressing Professor Greenish, the President said: "I have very great pleasure in handing you the Hanbury Medal. In the case containing it you will find a cheque of the value of 50*l.*"

Professor GREENISH, who received quite an ovation, thanked the President for his kind remarks and the very flattering way in which he had spoken of the work he had been able to perform in connection with the natural history of drugs. He also thanked the adjudicators of the Hanbury Medal for the honour they had done him in selecting him from among others who, he had not the slightest doubt, were more fitted for the award than he was. He hoped the award made him that afternoon would stimulate him to still further efforts and to still more work while years for work were left to him on the subject for which the medal had been conferred upon him.

THE INAUGURAL ADDRESS.

The PRESIDENT then called upon Lieut.-Colonel E. F. Harrison, C.M.G., to deliver the Inaugural Sessional Address.

BETTER EDUCATION FOR THE PHARMACEUT.

The address began with a reference to the time, twenty-six years ago, when the lecturer was a student at the School of Pharmacy and the changes that have taken place in the interval. The new situation created by the war will cause an acceleration of changes that had already begun when war broke out. The organisation of business

was then dealt with, this being chiefly in the growth of large scale organisation in both manufacturing and retail business. The war will necessitate this development being carried to far greater lengths, the lecturer adding that in his opinion one of the most important problems which civilisation has to solve is how to secure the economy and efficiency of thorough organisation of production and distribution of commodities of all sorts with the highest degree of freedom of the individual in his capacity as a producer as well as in his capacity as a consumer and ordinary unit of society. Pharmacy will not be exempt from the general tendency to organise. Chemical industry from its nature lends itself well to organisation on a national scale. The necessity of using up the by-materials of manufacturing organic chemistry and the need for operations on a large scale will make it increasingly difficult for small concerns to operate without close connection with others. The well-known connection of pharmacy with organic chemistry made the lecturer hope that many more who have begun their career as pharmacists will engage in the manufacture of organic chemicals. The necessity



Photo.]

[Lewitt & Fry, Ltd.]

LIEUT.-COLONEL E. F. HARRISON, C.M.G.

of research was insisted on. Dealing then with the conditions after the war, the lecturer said that if Germany meets with that thorough punishment which all hope she will receive, it will be years before her industries will recover. Germans will, moreover, be thoroughly unwelcome everywhere. The lecturer then urged the necessity of the institution of a compulsory curriculum in pharmacy. As an examiner he had seen the bad effects of bad preparation and cram in candidates. The object of schools of pharmacy should be to give sound scientific knowledge, and to impart scientific method from experiment. Referring to the forms of

authority which students will encounter, the lecturer said that no facts or theories are sacred from attack. Criticism of official formulæ is a fruitful method of progress. Women students are more prone than men to accept the statements of authorities without question. As an experience of the war, the lecturer stated that twenty or thirty pharmacists under him in his present position showed distinct advantages in their special training, accuracy and resourcefulness being particularly characteristic in pharmacists. The resourcefulness is closely related to the breadth of the curriculum of study, which also gives pharmacists a unique knowledge of organic natural products. The increased development of the natural resources of the British Empire will be a consequence of the war, and more attention will be devoted to the scientific cultivation of drugs. Much needs to be done in regard to essential oils, and in all these developments pharmacists ought to be in a position to offer expert service. The position of experts, however, cannot be obtained unless the relative position of pharmacists is not only maintained but raised. To do this more and better education is needed.

Mr. C. A. HILL, in moving a voto of thanks to Colonel Harrison for his address, recalled that Colonel Harrison was an old Bell scholar, and, as the President had told them, he attributed much of that gentleman's success in life to his early training at that School. His experience as a teacher there, and for many years subsequently as an examiner, had given him a peculiar qualification for addressing such an audience as that on matters affecting pharmaceutical education.

Mr. F. W. GAMBLE seconded, and the resolution was carried with acclamation.

Lieut.-Colonel HARRISON replied, and the proceedings then terminated.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, October 4, 3 p.m.

Will subscribers please note that for the present the Trade Report closes for press somewhat earlier than usual?

BUSINESS generally has been quiet in the produce markets, with the spot prices of crude drugs well maintained in view of the growing scarcity and difficulty of importation. Both star anise and cassia oils are dearer in spite of a reaction in bar silver, there having been a fair demand. Sassafras and spearmint oils are still moving upwards, and a further 6d. to 1s. advance in clove oil is recorded. Lemon oil is flat and on the easier side. Among fine chemicals the makers have advanced the price of caffeine and salts, pure crystals being 10s. dearer. The benzoates again show a substantial drop in prices for prompt shipment from U.S.A., and phenacetin is again cheaper for forward delivery. Hexamine is quiet; vanillin in first hands is held for a substantial advance. Hydroquinone is rather firmer; some of the bismuth salts have been advanced 6d. by the makers. Milk-sugar is again dearer. The Government control of acetic acid has now been extended to all strengths. Copper sulphate continues firmer, with sparing offers. Cream of tartar is a further 10s. dearer. Potashes are in very small supply, and caustic potash is now at a prohibitive figure; carbonate, although rising, is still obtainable at a reasonable price. Among drugs, areca is very scarce; kamala has been almost cleared of good quality on spot; common natural liquorice-root is very scarce and wanted; menthol is flat. Ipecacuanha is firm, and chamomiles are getting fewer. Mexican sarsaparilla has sharply advanced in U.S.A., while an arrival of Lima-Jamaica has taken place to this market.

Higher	Firmer	Easier	Lower
Bismuth salts	Anise oil, star	Araroba	Benzoic acid
Caffeine and salts	Cassia oil	Benzo-naphthol	Phenacetin (forward)
Canary-seed	Homatropine	Lanoline	Soda benzoate
Clove oil	Hydroquinone	Lemon oil (c.i.f.)	
Cloves	Potash carbonate		
Cream of tartar			
Fenugreek-seed			
Kamala			
Milk-sugar			
Spearmint oil			
Turpentine			
Vanillin			

Cablegram.

NEW YORK, October 4.—Business is active. Peppermint oil in tins is dearer at \$3.50; Mexican sarsaparilla has advanced to 40c., jalap to 30c., serpentry to 36c., acetanilide to 60c., and chloroform to 63 cents. Balsam Canada is lower at \$5.75, and Oregon balsam of fir is also lower at 90c. per American gallon.

ACETIC ACID.—The Order of the Minister of Munitions (see C. & D., September 29, p. 34) has been extended, and now applies to "acetic acid of all strengths." The effect of this Order has been to render prices nominal, and the re-

striction of consumption thereby caused may mean a reduction in prices in the U.S.A.

ALBUMEN is firm at from 3s. 4d. to 3s. 6d. per lb. for prime egg on the spot, and a fair business has been done. Chinese *Hen York* is also firm, with spot sales at 90s. per cwt.

ALCOHOL.—Methylators are meeting with great difficulties in obtaining supplies of spirit for methylating purposes. Licences have to be obtained from the Ministry of Munitions before spirit can be obtained, but we understand that for the present no licences are being granted. Supplies of spirit for other non-medicinal purposes are also becoming very scarce, and the probability is that higher prices will prevail next year.

ALOES.—An arrival of Cape aloes has taken place; value of good hard on the spot is about 60s., and middling 57s. 6d. per cwt.

ANISE OIL, STAR.—The spot price for "Red Ship" brand is now 4s. 6d. per lb., and to arrive 4s. 1½d. to 4s. 2d. c.i.f. is quoted, as to position. There is a good stock on the spot.

ANTIMONY.—There seems to be a demand both for spot and for shipment of Chinese crude, but sellers have almost vanished for the time being, and no reliable prices are obtainable, this being due to the more complex situation in China, incidental to the dearth of ship room. A considerable amount of Japanese tonnage was just lately commandeered, and no early shipment is thus obtainable. While the c.i.f. price is quite nominal at around 40s., there is virtually no spot to be got, and to-day's value is fully 45s.

ARAROA.—In view of recent arrivals, supplies are obtainable at easier rates, but the price of chrysarobin is maintained at 20s. per lb. net. In Liverpool a parcel containing 50 per cent. chrysarobin is offered at 2s. 8d. per lb.

ASPIRIN of the finest B.P. quality is quoted at 14s. 6d. to 15s. per lb. on the spot.

BENZOATES.—Competition appears to be much keener, and prices, especially for forward delivery, are considerably lower. For prompt shipment contracts for U.S.P. benzoic acid are being booked at 9s. 9d. and benzoate of soda at 9s., with "falling clause." The spot value of acid is about 16s. 6d. to 17s. and soda 15s. In view of the more reasonable level to which prices have fallen, it is possible the demand, which had fallen off, may be stimulated.

BENZONAPHTHOL.—Sales have been made at the lower rate of 60s. per lb. on spot, with forward delivery offering at slightly less.

BISMUTH SALTS.—Several of the salts have been advanced 6d. per lb. by the makers. These include B.P. carbonate, the list price of which is now 12s. 11d.; B.P. subnitrate, 11s. 9d.; and salicylate, 14s. 11d., all net, with the usual reduction for quantity.

BROMIDES.—The American position is unchanged for all salts, but, owing to scarcity, one English maker has raised his price of ammonium by 1s. 9d. per lb. Second-hand holders do not appear, however, to have followed this lead to the full extent, as they offer at 4s. 6d. to 4s. 9d. Potash is 6s. 3d. for granular, and sodium 2s. 6d. per lb. net.

CAFFEINE.—English makers' October price-lists show an advance of 10s. per lb. in pure crystals, the quotation being 50s. per lb. net for the home trade, but it is nominal. The salts have been proportionately advanced, and are: citrate 32s. 6d., benzoate 45s., hydrobromide 50s., salicylate 36s., soda benzoate 41s., soda salicylate 37s., and valerianate 60s. per lb., all net, the prices showing an advance of from 4s. to 10s. per lb.

CAMPOR (MONOPOLY).—The increase in the price of Japanese monopoly is now officially announced by the Government agents in London. The advance is 10s. per cwt. on both grades, which now stand at 210s. per cwt. for "B.B.," and 202s. for "B." quality, for October and subsequent shipment.

CANARY-SEED is dearer at 98s. to 100s. per quarter for fair to good Morocco.

CASSIA OIL is dearer, with sales of 80 to 85 per cent. cinnamic aldehyde at from 5s. 6d. to 5s. 9d. per lb. on the spot.

CLOVE OIL.—A further advance of 6d. to 1s. has taken place, distillers quoting 13s. 6d. to 14s. per lb.

CLOVES are again dearer, sellers of fair Zanzibar asking 1s. 9d. per lb. on the spot, which has been paid. The London stock of cloves at the end of September was 11,827 bales, against 21,499 bales in 1916 and 4,872 bales in 1915.

COCAINE.—Supplies are very short at the moment, and second-hand dealers lose no opportunity in "squeezing" the buyer. It is anticipated that later in the month limited quantities will be available.

COD-LIVER OIL.—Our Bergen correspondent writes on September 24 that the market remains without a quotation. Limited quantities of medicinal Norwegian 1916 oil can be had at 420s. per barrel in London, and for finest non-freezing Newfoundland 15s. 6d. per gal. net is asked on the spot.

COPPER SULPHATE.—The market became somewhat excited lately, with an eager demand by merchants for export, while some makers are cleared out for the next three months. The substantial fall in the price of copper last week had absolutely no effect on the market; on the contrary the market was propped up several pounds a ton, with business repeatedly done at 65s. 10s. for near shipment, some sellers now asking 66s. c.i.f. Liverpool, less the usual discount. Exports over the balance of the year should make a better showing, provided there is no difficulty as regards the permits. The fact is worth noting that the United States exported during the first half of this year close on 10,000 tons of copper sulphate or more than during the whole of last year.

CORIANDEER-SEED is steady at 65s. per cwt. for fair Morocco on the spot.

CREAM OF TARTAR has advanced a further 5s. to 10s. per cwt., sellers now asking 295s. to 300s. per cwt. for prompt supplies.

CUMIN-SEED is quiet at 67s. 6d. per cwt. for sifted Morocco.

EPSOM SALT.—Quiet, with good druggists' quality offering at 22l. 10s. per ton on the spot.

FENUGREEK-SEED is dearer at 43s. 6d. per cwt. for fair Morocco on the spot.

GALLS.—The spot value of Chinese is 150s. per cwt. for ordinary.

GINGER.—Small sales of Sierra Leone have taken place in Liverpool at 49s. per cwt. ex store.

HEXAMINE.—Quiet, with American make offering at from 3s. 3d. to 3s. 6d. per lb. on the spot.

HYDRASTIS is firm at 28s. 6d. per lb. net on spot.

HYDROQUINONE.—Following on an advance in the U.S.A., spot prices are firmer at 11s. per lb.

IPECACUANHA.—Fair sound Matto Grosso continues to sell at 11s. per lb. on the spot, and some ask 12s.; Cartagena is 10s. 6d.

KAMALA.—Little good quality is now available on the spot, the market having been practically cleared; good bright sifted is worth 1s. 9d., medium 1s. 6d., and dull 1s. 3d. per lb.

LEMON OIL remains very slow at from 4s. to 4s. 1d. per lb. on the spot, and to arrive prices are easier at from 3s. 10d. to 3s. 11d. c.i.f.

LIQUORICE-JUICE.—From 275s. to 285s. per cwt. has been paid for limited quantities of best quality of block juice on spot.

LIQUORICE-ROOT.—Supplies of common natural root appear to be almost exhausted on the spot. Decorticated and cut decorticated are in higher tendency, but 110s. will still buy a limited quantity.

MENTHOL is flat at 13s. 6d. per lb. for Kobayashi-Suzuki on the spot.

MILK-SUGAR.—A further 10s. per cwt. has been added to the price asked, 265s. being wanted for Dutch.

MINT OIL.—Japanese dementholised has been very quiet on spot, with sellers at from 3s. 7½d. to 3s. 8d. per lb.

OPIMUM.—Persian remains firm, with a small spot business at 65s. per lb., and much more could be done if supplies were available.

PEPPER is firmer, the spot quotation of fair black Singapore being 1s. 0½d.; Aleppy is 1s. 1d. and Tellicherry 1s. 1½d. Singapore white on the spot is 1s. 2½d., and Muntok has been done at 1s. 3½d., with buyers at 1s. 3½d.

PEPPERMINT OIL.—American in tins is quiet, and for finest brands on the spot 16s. 3d. is quoted, and 16s. c. and f. to come forward. H.G.H. just landed has been sold at from 21s. to 22s. London terms, with the higher quotation current at the close.

PHENACETIN.—For forward shipment from the United States prices are again lower, with offers at from 50s. to 55s. per lb.

PILOCARPINE.—Present prices are about 26s. per oz. net for nitrate and 28s. for hydrochloride.

POTASH CARBONATE has been tending dearer of late; a limited quantity of Russian 80 to 85 per cent. can be had at 130s. per cwt. on the spot.

POTASH CAUSTIC.—What offers appears to be old stock and probably deteriorated, and the price asked is 450s. per cwt.!

POTASH METABISULPHITE.—Either crystals or powder in cwt. kegs can be had at from 1s. 10d. to 2s. per lb. on the spot as to seller.

POTASHES remain in very small supply at all centres, first Government brand Montreal pot being almost exhausted; nominal value in Liverpool 205l. per ton and seconds 195l.; on the spot (London) 205l. is also quoted, which is below the parity on the other side.

QUININE is unchanged, second-hand holders quoting 2s. 11d. per oz. The monthly quinine statistics which have

been published give the landings in London during September as 117, which is entirely incorrect.

SALICIN.—Makers are unable to give delivery, but expect to have supplies available shortly.

SALICYLATES are unchanged, with English makers still in arrears in their deliveries. B.P. and U.S.P. salicylic acid is quoted at from 5s. 11d. to 7s., and forward delivery at 6s. Sodium salicylate is offered at 9s. for small crystals to come forward, and at 8s. 6d. to 10s. for powder on the spot.

SASSAPARILLA OIL is 6d. dearer in some quarters, American material offering at 5s. 3d. on the spot.

SENEGA is firm at 4s. 5d. per lb. net on spot.

SHELLAC has been quiet, the spot value of usual standard quality TN Orange being from 23s. to 23½s., fine Orange 23½s., and AC Garnet 23½s. The London stock of shellac is 32,655 cases, against 34,733 cases a year ago and 96,452 cases in 1915. The landings in London during September were 273 cases, and the deliveries 1,262 cases.

SPARTHE appears to be unobtainable, and no quotation is available.

SPERM OIL has moved upwards in sympathy with peppermint oil, with 15s. 6d. asked on the spot.

TRACACANTH.—Very fair arrivals and deliveries are taking place, the chief demand being for export at steady prices.

TURMERIC remains firm, Madras finger selling at from 52s. 6d. to 55s., and at 50s. for Bengal finger. Cochin split bulbs are quoted at 42s. per cwt.

TURPENTINE has been an active and dearer market, American closing on Wednesday evening at 70s. 3d. per cwt. on the spot, an advance of 4s. 9d.

VANILLIN.—First hands are now asking about 51s. per lb. in view of the rise in clove oil; second-hands have been selling this week at 47s. 6d. to 42s.

American Drug and Chemical Markets.

New York, September 13.

Mail advices intimate the following items of interest:

ACETIC ACID.—Leading makers of 23-per-cent. commercial advanced their quotations to \$6.25 to \$6.50 per 100 lb. in sympathy with the high cost of crude materials and the fact that their output is well sold ahead.

ACETPHENETHIDIN (PHENACETIN). is again easier at from \$15.00 to \$14.00 per lb.

BROMIDES.—Second-hands have been offering potash at \$1.23 per lb., the makers' price being \$1.45 for crystals and \$1.35 for granular.

COCAINE.—An advance of \$1.00 per oz. has been made by the leading makers of hydrochloride to a basis of \$8.25 owing to the heavy demand for export. There has been a particularly active export demand on the Pacific Coast for shipment to Japan and Russia. There is now a great scarcity of coca-leaves.

GLYCERIN.—With only meagre offerings the market for the dynamite grade has been tending upwards, with 66c. to 70c. asked. For the chemically pure the prices in drums remain at 64c. to 65c. per lb., while for cans the price is 65½c. to 66½c. Crude grades are somewhat higher, with soap-lye selling at 48½c. to 47c. per lb., and saponification at 51c. to 52c. per lb.

LITHIUM CARBONATE.—Makers have advanced their prices by 25s. per lb. to \$1.50 per lb. minimum.

POTASH BICARBONATE has advanced to 41c. per lb. owing to heavier consuming demand.

SALICYLATES.—An easier tendency is noted in salicylic acid and salicylate of soda, both of which are offered at \$1.45 per lb. on spot.

SODA ASH is held at \$4.20 per 100 lb. on the spot.

SODA BICARBONATE is in upward tendency at 23c. per lb. for spot, with the expectation that 50c. will be reached.

SODA CITRATE has been advanced in some quarters to \$10.25 per 100 lb.; forward deliveries are quoted at \$10.00.

Seychelles Produce.

In the course of the annual report on the trade of Seychelles for 1916, it is stated that the exports of vanilla amounted to 20,941 kilos., against 2,470 kilos. in 1915; essential oils to 180 hectolitres, against 152 hectolitres in 1915; whale oil 7,000 litres, valued at Rs. 21,000, was exported to South Africa. Copra, for the second year in succession, has shown a drop from 2,314,908 kilos. in 1915 to 2,363,903 kilos. in 1916. The gratifying feature of the export figures is the steady rise in the essential-oil industry: the exports for 1916 were valued at Rs. 94,200. This industry gives rise to a good deal of employment, and appears to be well established. The export of vanilla in 1915 was the largest on record since the year 1910, but unfortunately the market was poor and the prices obtained were low.

Austrian Drug-prices.

A circular has been issued by a well-known Viennese firm of wholesale druggists quoting prices (per 100 kilos.) for flowers, herbs, barks, roots, etc., among which are the following: Rhamnus frangula, 29m.; arnica-flowers, 225m.; chamomiles (1917 crop), 230m. to 325m.; insect-flowers, closed, 320m., half-open, 300m., stems, 110m.; elder-flowers, 220m.; belladonna-leaves, 200m. to 225m.; stramonium-leaves, 200m.; uva-ursi, 250m.; henbane-leaves, 190m.; Dalmatian insect-powder, genuine, 345m.; aconite-root, 230m.; marshmallow, 450m.; bryony, 80m.; colchicum, 140m.; gentian, 575m.; hellebore, 110m.; stramonium-seed, 110m. The above are practically all indigenous Austrian drugs in original bales and cases, and the prices are without engagement while net cash has to be paid after receipt of invoice before the goods are despatched. This latter stipulation evidently arises from the parlous monetary conditions existing in Austria.

Gum Ghatti.

Mr. J. D. Maitland Kirwan, I.F.S., Deputy Conservator of Forests, has written a Forest Bulletin (No. 35) on the babul-tree (*Acacia arabica*, Willd.), the gum of which provides commerce with "gum ghatti." Mr. Kirwan states that the gum exudes spontaneously, or is procured by incisions in the bark, in small lumps varying in form and size. A good tree is stated to yield about 2 lb. of gum in a year. The gum is extensively used for calico-printing and sizing paper, for fixing paint and whitewash, as a muciage, and to a limited extent in medicine. It is also eaten, and used in preparing sweetmeats. The price varies according to quality and colour; large, light-coloured tears from Sind babul fetch the highest prices, a fair average being about 4 annas per lb., while the fine qualities fetch as much as 8 annas per lb. The gum is not, as a rule, collected departmentally, but by contractors, as in Timor, and can generally be purchased in large bazaars. In the latter case, however, it will very likely be mixed with that of other species, for, as the "Dictionary of Economic Products" states, "the gums designated 'gum ghatti' would embrace very possibly a wide range of gums (besides those obtained from species of *Acacia*), and very often it is believed degrees of quality must denote the extent of admixture rather than the nature of specific variations."

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the Ports of London and Liverpool:

To London.	Opium, 22 cs.	Dyestuffs, unrated, 50
(September 22 to 28.)	Orange-red, 10 bls.	chs. 5 pags. 39 blis.;
Acetic acid, 140 blis.	Ordis, 40 bgs.	dye extract, 10 blis.;
Antim. crude, 175 tons	Perfumery, unrated,	fusile, 2 tons; log-
Argol, 378 pags.	8M; toilet-powder,	wood ext., 17 bls.
Buchu, 5 bls.	159.	479 chs.; 4 myra-
Carbon black, 100 cs.	Pumice-stone, 17 tons	bolans, 1,970 pockets;
Caseln, 1,952.	Quinine, 25,504 oz.	quercitron ext., 100
Cassia fistula, 19 bgs.	Safrol, 540l.	blis.; tanning bark,
Chemical products, un-	Santonin, 41 cs.	473 blis.; tanning ext.,
rated, 4 pbs. 1 cs.	Seeds (Copa), anise, 69	6 chs.; valonia,
Cinchona, 739 bls.	bbs.; annatto, 57 bbs.	5,625 bbs. 525 tons;
Chloric acid, 12 pags.	38 bls.; canary, 114;	waile bark, 1,134
Creosote, 32; cotton,	coriander, 32; cotton,	bls. 453 bbs.
Green of tartar, 32	1,455 tons; lin, 5,126	Formaldehyde, 3 bls.
pags. 20 bgs.	bbs.	Glycerin substitute, 100
Dental goods, 37W.	Senna, 47 bls.	blis.
Drugs and herbs, 34	Soap, toilet, 1,013.	Gum chicle, 34 bls.
bbs.	Soda silicate comp., 100	Lactic acid, 2 cs.
Drugs, unrated, 2M.	bbs.	Lithopone, 1,344 bbs.
Dyestuffs, unrated, 30	Squill, 100 bgs.	Magnesian, 4,000 cwt.
blis. 6 cs.; hematine	Starches: potato-four,	Nuts and kernels: ara-
cryst., 23 blis.; myra-	1,200 cwt.	chis, 530 tons 195 bbs.;
bolans, 1,615 bbs.;	Stavesacre-seed, 6 bgs.	copra, 521 bbs.;
tanner's bark, 76 tons	Stearine, 230 bgs.	palm-kernels, 60,839
Fusel oil, 5,822.	Stovaine, 1 cs.	bbs. 260 tons
Gamboge, 3 cs.	Talc, 435.	Oil, essential, unrated,
German, 24 bls.	Tamar, brown, 50 chs.	18 drms.
Gums (Cwt.): acacia,	Tartaric acid, 16 chs.	Oil, fixed: olive, 100
2,734; damar, 1,029;	49 pags. 20 blis. 42	blis.; palm, 1,531
transacanth, 66	bbs.	chs.; whale, 4,662
Insect-flowers, 23 bls.	Valerian-root, 30 bls.	tuns
Methyl salicylate, 11 cs.	Vanilla, 6 cs.	Petroleum-jelly, 295
Milk sugar, 190 cs.	Wax, not described,	blis.
Musk, artificial, 480l.	152 bbs. 375 bls. 11	Rosin, 26 chs. 222 blis.
Musk-root, 122 bbs.	cs. 14 chs. 227 pags.	Salicylic acid, 32 blis.
Nuts and kernels (Cwt.):	Wax, paraffin, 2,314	Soda benzoate, 3 chs.
acacia, 7,600; copra,	cwt.	Starches: farina, 2,306
1,123; palm-kernels,	Zinc oxide, 350 chs.	bbs.
4,540		Talc, 4,035 bbs.
Oil, essential, 158 cs.	To Liverpool.	Tallow, 242 pags.
9 drms. 1 bx.; eucaly-	(September 25 to 29.)	Thorium and cerium
ptus, 240 cs.;	Acetic acid, 103 blis.	oil, 10 cs.
sandalwood, 2,435.	Argol, 360 bgs.	Wax, bees', 231 pags.
Oil, fixed: arachis,	Chemical products, un-	63 bbs.
12,210 cs.; castor,	rated, 2 pags.	Wax, caranaba, 80 bbs.
516 blis.; coconut,	Cochineal, 22 bbs.	Wax, not described,
unref., 52 drms. 25	Dental goods, 450l.	246 blis.
pys. 164 pags. 55 pbs.	Drugs, unrated, 154.	Wax, paraffin, 265 blis.
palm, 12 chs.	314 pags. 2 cs. 73 bls.	2,550 cs. 890 bbs.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Women Assistants.

SIR,—“Xrayser II.”’s experience has been unfortunate: I am quite sure it is not typical. If he likes to come to the West-end, I will take him to a large store where men have been entirely displaced by women, and instead of finding them “slower, less expert, more inattentive, and less adaptable” than their predecessors, he will find exactly the opposite. Also I can take him to a large suburban store and he will receive equally satisfactory service from women. But even if he did not, might I ask him if he was as expert one year after he started his apprenticeship as he was five or ten years later? “Xrayser II.” should not judge a whole class from what I am certain is a very limited experience.

Yours faithfully,
A MERE MAN. (89/7.)

Women Dispensers in Military Hospitals.

SIR,—Since the outbreak of war women have entered into practically every sphere of labour. On the cessation of hostilities what their future will be it is impossible to foretell. The women dispensers have proved very satisfactory both in military and Red Cross hospitals, so that it is not unreasonable to think that in the future they may be employed. A limited number of women trained nurses have for many years been engaged as Army Sisters, so why not women dispensers? If such should be the case, how is the War Office going to regard them? At present the Joint Committee of the British Red Cross and the Order of St. John are responsible for their position and the rating of their salaries. It will be remembered how at first the woman pharmacist and the dispenser (with the Hall certificate) received the same salary. Now things are altered and the pharmacist receives 45s. a week, dispensers 35s. If we glance at the “General Service” list of workers we find

“Head Dispensers—Pharmaceutical Major and Minor 45s. per week; Dispensers—Apothecaries’ Hall certificates 35s. per week. The above terms do not include food, washing, or quarters . . . They cover all time worked (average number of hours 48 per week). 4l. uniform allowance if agreement to serve for twelve months be signed.”

The above apply to Military Hospitals. The Auxiliary Hospitals, the majority of which are Red Cross (a few are private), expect to get voluntary dispensers although they pay their trained nurses. In war-time women do not wish to demand a proper wage for dispensers, for they, too, are anxious to “do their bit” without counting the cost, and most decidedly if there is a Major or pharmaceutical woman dispensing at a military hospital for 45s. per week she is doing her “bit.” All the same, when one looks around and sees what women in other spheres of labour are paid, one can but wonder what opinion the “powers that be” have of dispensing. Moreover, it must be borne in mind that this payment is at a time when the civilian has a difficulty to engage a capable dispenser. The pharmaceutical world is one that is never understood by the “man in the street,” so it is not surprising the average V.A.D. who is “nursing” the wounded thinks the dispenser spends her days pouring out and filling up bottles of lotions. The practical dispensing is never thought of, and the “heads” evidently think the same. In looking through the list of salaries one sees: “Laboratory attendants, trained, 26s. weekly,” that is, 9s. only less than the dispenser. That such a state of things has been allowed to exist is a pity, for it is a cutting-down of women’s pay just at a time when they wish to proclaim that they are capable of working shoulder to shoulder with the men and are in no way a hindrance to any profession. If women are eventually employed by the military authorities, when a scale of payment is drawn up who can blame them if they build it on the salaries paid in war-time? What effect will it have to state that in the dispensing world the women were so patriotic that they accepted a low wage while their sisters in other professions were well paid, in some cases receiving a fancy wage, and the unskilled girl even was able to demand her own price? Such a state of affairs is far more likely to tend to lower salaries all round and bring down the standard of the profession. Moreover, there are cases of a dis-

penser, where work is light, doing odd jobs to fill up her time as if she were an unskilled V.A.D. worker whose only asset to the hospital is the number of hours she puts in. For the sake of all concerned it is to be hoped that some steps may be taken to place the salaries on a proper footing. Of one thing we may be quite certain—the Red Cross in no way wish to slight the pharmacist or dispenser. It is simply in this as in other matters, important decisions have been arrived at by those who have had no previous knowledge of such matters.

Yours truly,

EMILY L. B. FORSTER,
Author of “How to Become a Dispenser.”

The Dual Capacity.

SIR,—I wish to offer a word of warning to my fellow-pharmacists in connection with the negotiations for obtaining better remuneration for Insurance dispensing. The circular letter issued by Mr. Woolcock, a copy of which I have received from the Secretary of the London County Association, carefully warns off the course everyone save the “Committee.” If the Committee is thoroughly representative of the panel chemists, well and good; if it is not, then grave injustice may be done to men who are unrepresented. The warning I wish to offer is to point out the danger of having our interests in the hands of two men who are both in the Government service. Without doubting for one moment the loyalty to pharmacy of either Mr. Woolcock or Mr. Glyn-Jones, it seems a travesty of all ideas of ordinary business that they should carry on negotiations for chemists while at the same time they are tied to the apron-strings of the Government.

Yours truly,

A LONDON MEMBER. (91/101.)

Dispensing-prices.

SIR,—One of your correspondents gave an example of profiteering by chemists. What can the following be called? The prescription given below was dispensed at Stratford-on-Avon—bottle included—for 1s. 4d., and in Birmingham for 1s. 6d., at high-class chemists’, and not stores:

Sod. bicarb.	gr. xv.
Bis. carb.	gr. xv.
Muc. acac.	5ss.
Spt. chlorof.	ʒiij.
Ac. hydrocyan. dil.	ʒiv.
Syr. aurant.	5ss.
Aq. menth. pip. ad	5ss.

Mitte ʒviij.

This, taken in conjunction with what your correspondent wrote about high charges, makes one wonder how chemists arrange their prices.—Yours truly, RAZA. (86/18.)

Subscribers’ Symposium.

For interchange of opinion among “C. & D.” readers, and brief notes on business and practical topics, especially new ideas.

Then and Now.

J. T. T. (64/22) sends the following extract from the “Journal of the Society of Arts” for September 29, 1832: Uses of Glycerin.

Price’s Patent Candle Co. are anxious to obtain all the information they can as to the various very numerous uses of glycerin.

The firm would be greatly obliged if any members of the Society who are acquainted with any of the uses of glycerin in the manufactures would communicate them in a note addressed to Mr. J. C. C., Belmont Works, Battersea.

[We recall the interesting note regarding the introduction of glycerin published in the C. & D., July 29, 1916, p. 801.]

A Sweet Idea.

H. (28/9) writes: “Now that there are so many sweetening-substances on the market, a very catchy display for window or interior purposes may be made by setting a small Japanese tea-table for afternoon tea. Display prominently on the table your sweeteners with suitable cards. The novelty will create inquiries, and good sales will certainly follow. This idea may be very easily applied to other goods. The purpose of any display is to invite inquiry, and originality is the means to that end. A soap display, for example, has much greater influence if a wash-hand basin full of water, a sponge, and clean towel are placed conspicuously in the centre. When you have received an inquiry you have half sold your goods. A good salesman can easily close the bargain. Three good words for a salesman to keep in mind are: Arrest, interest, suggest. The sequence to these will come from the customer in the one word: Invest.”

Legal Queries.

Most difficulties in trade law are given in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

R. M. B. (146/24).—HOLIDAYS cannot be claimed as a legal right unless an agreement to that effect was arrived at when your engagement as manager was made. At the same time, most employers recognise the mutual advantage of holidays, and pay their assistants' salary during the vacation. Others, as in the case you mention, require their assistant to pay the salary of the *locum tenens* who is taking his place.

G. W. B. (143/39).—(1) The fact that the measure you refer to is unstamped is all the inspector of weights and measures would need to consider. The presumption would be that as the measure was found on your premises it was used in your trade, and a prosecution would follow. (2) Proprietary pills containing ext. hyoscyami require to be sold under the conditions of Part II. of the Schedule of Poisons—i.e., the article must be labelled with the word "Poison" and the name and address of the seller.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

L. D. (21/9).—TABLET MEDICINE.—For rheumatism, aspirin in 5-gr. tablets would be suitable. The following are the only other formulae we have of those you ask for:

Bronchial.		Anti-asthmatic.	
Ammonium chloride	5½ oz.	Potassium iodide	2 lb.
Powdered liquorice extract	1 lb.	Potassium bromide	2 lb.
Balsam of tolu	3½ oz.	Fluid extract of euphorbia pilulifera	43½ oz.
Oleoresin of cubeb	5½ oz.	Tincture of lobelia, U.S.P. 1890	2100 m.
Powdered senega	3½ oz.	Nitroglycerin (10 per-cent.)	350 m.
Powdered ipecacuanha	140 gr.	Evaporate the fluid extract and tincture to a soft extract, and mix with the granular salts. Dry at a low temperature, sift, add the solution of nitroglycerin, dry, sift, and compress warm into 4½-gr. tablets.	
Calcined magnesina	2 oz.		
Cane sugar	2 lb.		
Milk sugar	1½ lb.		
Powdered tragacanth	8 oz.		
Mucilage of tragacanth (5-per-cent.)	8 oz.		

S. L. O. (136/29).—VARNISH-STAINS.—We have no further formulae of the type given in the *C. & D.*, September 1, p. 52, but you will be able to devise recipes on the same models.

A. A. B. (137/28).—DISPENSERS ON PRISON SERVICE.—Candidates must be between the ages of twenty-four and forty inclusive, hold the qualification of the Pharmaceutical Society, and satisfy the Civil Service Commissioners as to their abilities in reading, writing, orthography, and arithmetic. The remuneration is from 109*l.* 4*s.* per annum, rising 2*l.* per annum to 125*l.*, then by 5*l.* per annum to 156*l.*, with quarters or 19*l.* 10*s.* in lieu thereof. There are pensions on retiring. The duties of dispenser include keeping medical records, assisting in surgical operations, etc. An application-form for appointment to the subordinate staff in the prison service has first to be obtained from the Secretary of the Civil Service Commission, Burlington Gardens, London, W.

A. D. (136/5).—SOFTENING ANIMAL SKINS.—The use of deliquescent ammonium chloride was recommended by a *C. & D.* subscriber, some years ago, for softening dried skins of animals that had become hard. This process is followed by the incorporation of a grease well rubbed in, a finishing of bran or similar material being used to remove excess of grease.

C. A. T. (143/63).—(1) CATTLE-DRENCHING POWDER.—The sample you send is composed of sodium sulphate. It also contains a small proportion of fenugreek, while the red colour is due to iron oxide. (2) We do not undertake to identify chemicals obtained from unlabelled bottles, as the matter is not of general interest.

Ogunum (147/39).—OILED SILK.—The process of preparing oiled silk is as follows: Large pieces of green silk are fastened on a wooden frame furnished with hooks and movable pegs, and there is then applied to both sides of the silk a varnish consisting of poppy oil 3 parts, copal varnish 1 part. The drying properties of the poppy oil are increased by the usual method of boiling with litharge or adding some of the newer siccatives salts. The varnish is applied as sparsely as possible, and if necessary repeated when the first coating has dried. Sometimes a thin copal varnish is applied as the final coating, and the surface finished by polishing with tripoli.

Cranium (55/86).—LACQUER FOR SILVER ARTICLES.—The following formula is stated to be used for coating silver articles so as to keep them from tarnishing:

Amyl acetate	...	...	60 gals.
Amyl alcohol	...	...	30 gals.
Methyl alcohol	...	...	7 gals.
Shellac solution (in spirit)	...	...	3 gals.
Pyroxylin	...	...	25 lb.

The shellac solution is made by dissolving 4½ lb. of shellac in 3 gals. of spirit and using the clear portion only. A simpler solution consists of—

Amyl acetate	...	...	5½ gals.
Benzene	...	...	4½ gals.
Pyroxylin	...	...	2½ lb.

W. R. W. B. (145/61).—DISPENSING FOR DOCTORS.—To meet the increased prices of drugs through the war you could add 20 per cent. to the total as a war charge. A better way would be to follow the Drug Tariff method of pricing (see *C. & D.*, September 29, p. 42).

Clayton (147/17).—FISH-SCALE VARNISH.—The varnish used for giving the effect of pearl to the surfaces to which it is applied consists of fish-scales suspended in a celluloid varnish. The fish-scales used are those of the bleak or ablette (*Lenciscus alburnus*), which is common in French rivers; these scales are very small, and best suited for the purpose.

S. P. M. (146/74).—MATCH-MAKING.—A formula for making matches was given in the *C. & D.*, November 4, 1916, p. 52. The various processes used in making matches are treated rather fully in Thorpe's "Dictionary of Applied Chemistry." We are not aware of any other work treating the subject from the practical point of view.

W. H. C. (146/64).—LABEL-VARNISH.—The variety of label-varnish which does not require the paper to be sized before the varnish is applied is a solution of celluloid (1 oz.) in amyl acetate or acetone (2½ lb.). Perhaps as a hospital dispenser you will find it more convenient to use collodion as a label-varnish.

Ajax (142/52).—MASSAGE-PASTE.—The sample you send is mainly soft white paraffin with a small proportion of boric acid, and the perfume of rose-geranium. As a rule these pastes contain a little lanoline, the following being a recognised formula for massage-paste:

Soft white paraffin	...	...	1 oz.
Lanoline	...	...	½ oz.
Powdered Castile soap	...	...	1 dr.

Mix together and add—

Rose-water	...	...	½ oz.
Rose-geranium oil	...	...	2 drops

R. W. (131/68).—INJECTIO CAMPHORE HYPODERMICA (ÆTHEREA).—Referring to the formula which we gave in the *C. & D.*, September 22, p. 52, a subscriber informs us that this is known also as Couchman's solution, which we think is probably the name you had in mind when you made the inquiry.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Oct. 15, 1867.

The Teaching of Chemistry in Schools.

Professor Tyndall, F.R.S., says: "The first principles of chemistry ought also to be taught in our public schools. ... In all possible cases the close questioning of the pupils ought to go hand-in-hand with the performance of the experiments. Such questioning compels attention, keeps the mind alert, and enables the teacher to extract its full value and significance from every fact. This method I think preferable to that of formal lectures. The instruction thus imparted would be valuable, not only as conveying information of great importance, or as enabling its recipients to interpret natural phenomena, but also, and mainly as a means of intellectual discipline, of exercising and strengthening all the faculties of the mind."

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THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, OCTOBER 6, 1917

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus, Cannon, London." (Three words counted as two.)

EARLIER CLOSING FOR PRESS.

WILL intending Advertisers please note that until further notice all Advertisements for THE CHEMIST AND DRUGGIST SUPPLEMENT must be in the Publisher's hands not later than

FIRST POST THURSDAY MORNING,

to be available for the issue published in that particular week. Owing to restricted postal deliveries it is advisable to *post* all communications on the Tuesday preceding the date of issue. Advertisements received after the time indicated will be inserted in the following week's issue.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—KENSINGTON (Death Vacancy).—Dispensing and Retail Business; returns £800, formerly £1,000; well-fitted shop and comfortable residence; held on long lease; first reasonable offer accepted.

2.—HYDE PARK (near).—Select Dispensing and Retail, vendor giving up business; returns about £1,200; gross profit between £650 and £700 (proof given); valuation terms entertained.

3.—PORTLAND ROAD STATION (near).—For disposal through death, good middle-class Business; chiefly ready money; excellent position in main thoroughfare; returns £1,000 per annum; net profit £300; lock-up Pharmacy; terms, valuation of stock and fixtures.

4.—LONDON, S.W. (Distant Suburb).—Retail and Dispensing Business, situate in busy main thoroughfare; returns between £1,800 and £1,900; net profit £461; books open to inspection; price £850; stock and fixtures recently valued at £650.

5.—LONDON, S.W. (Favourite Residential Locality).—Middle-class Retail and Dispensing Business, held by vendor many years, now retiring; returns between £850 and £900; good opening for extension under energetic management; first reasonable offer will be accepted.

6.—CITY (near).—Retail and Dispensing (N.H.I.) Business in main marketing thoroughfare; returns £900 to £1,000 per annum; gross profit 50 per cent.; price £300, or prompt offer; corner shop, double fronted; nicely fitted and well stocked.

7.—HERTS (Borders of).—Ready-money Business; no serious opposition; returns upwards of £2,000 (present rate); profits large; full investigation permitted; price £500, or valuation terms if preferred.

8.—YORKSHIRE.—Mixed Country Business with Gilbey's agency, etc.; returns average £800 yearly; net profit £200; price £500, or valuation of stock and fixtures; rent only £28, including good six-roomed house, garden, warehouse, and yard; nicely fitted and well stocked.

9.—IN THE HEART OF THE COUNTRY (unopposed).—Ready-money Business, capable of considerable increase; present turnover, under Assistant, £50 weekly at full prices; vendor is seeking a partner to take sole management and purchase half-share, for which £450 is required.

10.—KENT (Market Town).—Vendor will accept valuation of stock and fixtures for early release; returns about £1,000 at fair prices; full investigation invited.

11.—FASHIONABLE SEASIDE TOWN (S.W. Coast).—Good-class Retail and Dispensing, with excellent sale for own proprietaries; returns average about £700; net profit £275; well-appointed shop and residence, situate in the centre of the town, and close to busy railway station; terms, £50 and valuation of stock and fixtures.

12.—BRIGHTON.—Good-class Retail and Dispensing Business for disposal through ill-health; returns show a steady increase, and are now about £1,500; well-fitted shop and good residence; vendor will accept first reasonable offer for a speedy transfer.

13.—SUSSEX (Health Resort).—General Retail and small Wholesale Business, entirely unopposed; returns about £1,400; terms, £120 and valuation of stock and fixtures.

14.—SOUTH COAST (Near the Solent).—Established Business, Retail, Dispensing, and Prescribing; returns £500 at good prices, practically no patents being sold; rent £30 per annum; price about £250.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

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(ESTD. 1837)

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Tel. No.: Finchley 812.**BERDOE & FISH****VALUERS & TRANSFER AGENTS,****85 Jewry Street Fenchurch Street E.C.3.**

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NO CHARGE TO PURCHASERS.**1.—SOUTHERN COUNTY** (Fashionable Town).—High-class Retail and Dispensing Business, in fine position; returns over £2,000; elegantly fitted Pharmacy, modern front, and heavily stocked; price £1,000.**2.—DEVON** (Market Town).—Good-class Business; under management returns average £1,300; central position; splendid premises; fully stocked; owner on active service; price, valuation, or reasonable offer entertained.**3.—HERTS** (Market Town).—Most desirable Light Country Retail; easily worked; returns about £900; good profits; excellent house, bathroom, etc.; very best position; well stocked; price for prompt sale, £400 cash; strongly recommended.**4.—N. DEVON.**—Unopposed Light Country Retail; family reasons sole cause of sale; returns £480, increasing; profits above average; good house; rent £27; own property; price £275.**5.—LEICESTERSHIRE.**—Genuine Cash Drug Stores; same hands 15 years; now called up; returns average £630; net profit £200; good house and Pharmacy; well stocked; one other Chemist; price £300 or valuation.**6.—LIVERPOOL.**—Light Retail and Prescribing; no side lines; all ready money; returns under Manager £16 a week, increasing; corner double-fronted shop; good house; price £350.**7.—NORTH LONDON** (Healthy Suburb).—Sound, progressive Cash Business for immediate disposal through serious illness; returns £1,150; net profit fully £300; fine modern Pharmacy; excellent main road position; low rent; good house; price £750 or offer.**CHRISTMAS STOCKTAKING.**

WE are open to undertake one or two LARGE Stocks immediately after Christmas, being free then owing to a change of date; also we have only two or three free weeks this side of Christmas, so engagements should be fixed up early; terms on application.

FOR SALE.

FOR Sale, a new Eureka Tablet Machine (Stokes American Patent). Apply Dr. H. W. Anderschou, 14 Stanley Gardens, London, N.W. 3.

OFFERS Wanted.—14 lb. Sacch. Lact. A. & H.'s; 4 lb. Pol. Buchu.; 2½ lb. Ol. Santal Flav. West Indian; 3 doz. Moseley Food, 1s.; 3 lb. assorted Aniline Dyes; 1 oz. Amidol. Hauff.; 2 oz. Hydroquinone. Oxen's, Ltd., Newcastle, Staffs.

REAL Bargain.—National Cash Register (second-hand) going cheap; condition guaranteed; small machine. Write, at once, to F. Wood, 2 Waverley Villas, Daisy Road, Woodford, E. 18.

BUSINESSES FOR DISPOSAL.

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NORTH-EAST COAST.—An old-established Business, with large sale of own Specialities; returns during the last three years average nearly £4,000 per annum; the premises are well adapted for the conduct of a large business, and are in the centre of the town, the chief industry of which is shipbuilding, which is at present in a very prosperous condition and likely to continue so for some years; the Proprietor is retiring on account of ill-health. Apply to French Brothers, Frederick Street, Sunderland.

SUSSEX.—Well-established Business (mainly Dispensing) in fashionable inland health resort; for immediate Sale, owing to death; average turnover £2,226; exceptional profits. Apply, in first instance, T. H. Waterhouse, Incorporated Accountant, 25 Devonshire Road, Bexhill-on-Sea.

WEST OF ENGLAND.—Owing to ill-health, old-established Business; present hands nearly 25 years; returns £1,500; could be largely increased; expenses low; good profits; capital house, garden, and large shop with modern front; about £1,000 required. Full particulars on receipt of references. Apply "West" (107/18), Office of this Paper.

FOR Immediate Disposal.—Shop and Branch; South Wales Colliery district; turnover over £1,500; business chiefly Prescribing and Counter trade; profits above average; low price for quick sale for one or both businesses. Apply 105/31, Office of this Paper.

FOR Sale as a going concern, well-established Chemist's Business in Blackpool; present takings average over £1,000 per year. Apply John Potter, Incorporated Accountant, 34 Birley Street, Blackpool.

GOOD Drug Stores; unopposed; grand opening for Insurance Dispensing; Stock and Fixtures at valuation. Apply 104/34, Office of this Paper.

HIGH-CLASS Pharmacy in best-class Manchester suburb; excellently fitted; rent £40, with dwelling house; returns £700 under management; value about £500 for Stock and Fittings; owner on premises would have much more scope. Apply Thos. Tomlinson & Son, Chemists' Valuers, 45a Market Street, Manchester.

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EGYPT.—London Merchant with office in Cairo, well connected in the trade, and representing already leading English Manufacturers for Tooth Pastes, also for Medicated and Toilet Soaps, is willing to get in touch with Manufacturers of Pharmaceutical Products, Druggists' Sundries, Chemicals, etc., with a view of representation now or after the war for Egypt and the Near East; best London references. Apply 94/21, Office of this Paper.

SPAIN.—Spanish Pharmacist, speaking English and French, with London and Paris Pharmacy experience, travelling experience in Spain, calling on Doctors and Chemists, having already introduced, in Spain, English goods with very good success, is open to represent first-class firm; best references. Apply 93/12, Office of this Paper.

GENTLEMAN desires Agencies for first-class houses; good connection with Wholesale-Retail Chemists and Druggists; references. Apply 86/13, Office of this Paper.

See Notice on Front Page of this Supplement.

TO LET.

SHOP, d.f. Chemist's; completely and well-fitted; established over 20 years; just off Clapton Common, N.; chance to pick up good business cheap; rent £60. Owners, 160 Stoke Newington Road, N.

BUSINESSES WANTED.

BUSINESS required, returning not less than £200 net; Southern Counties; plenty of space inside, and good frontage desired; must bear investigation; or short Managership with early succession preferred. Full particulars and price, with photo if possible (returnable in first letter (confidential), King, c/o Mrs. Gale, 2 Winchester Road, Eastleigh, Hants.

PARTNERSHIPS.

YOUNG business man requires Active Partnership in Wholesale Druggists' Sundries business where £300 or £400 would be useful; at present proprietor of a Retail Chemist's business; hard and progressive worker; strictest investigation necessary and invited; Lancashire or Yorkshire preferred as centre. Full particulars, in confidence, to 106/36, Office of this Paper.

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RETAIL.

BIRMINGHAM.—Young lady Assistant; used to N.H.I. Dispensing. Bramleye, 87 Holyhead Road, Handsworth, Birmingham.

BIRMINGHAM.—Unqualified Assistant; ineligible or over military age; good wages; no N.H.I.; close Saturdays 1 o'clock; weekday hours 8.30 a.m. to 7 p.m.; no Sunday duty. Full particulars. Apply 106/39, Office of this Paper.

BRIGHTON.—Competent Assistant for high-class Retail and Dispensing business; ineligible; three kept. Please give all usual particulars in first letter, Parris & Greening, 105 Church Road, Hove.

BRIGHTON.—Competent Assistant wanted for good-class Dispensing business. State salary required and particulars to Watts & Co., 114 Church Road, Hove.

CHESHIRE.—Assistant required for Light Retail and small amount of Dispensing; hours 8.30 to 7.30, Wednesday 1, Saturday 9; no Sunday duty; outdoors; good salary to suitable gentleman. Usual details to Young, Chemist, Nantwich.

CLACTON-ON-SEA.—Qualified Manager required (ineligible for Army) for Dispensing Retail and Photographic business. Apply, stating full particulars, to Mann, Chemist, Clacton-on-Sea.

CUMBERLAND.—Qualified elderly gentleman or lady (Minor) required until January; Mixed business; work light; hours 9 to 8 p.m.; one hour each for dinner and tea; salary £3 5s. per week; a lady desiring Counter experience not objected to. Apply, with references, to 101/26, Office of this Paper.

ERITH-ON-THAMES.—Assistant lady or gentleman (outdoors) for brisk Light Retail and Dispensing; hours of business: Monday, Tuesday, Wednesday 8.30 to 7.30, Thursday 8.30 to 1, Friday 8.30 to 8, Saturday 8.30 to 9, no Sunday duty. In reply please give full particulars of experience, salary required, etc., enclosing photo (to be returned), Walter Reeson, 80 High Street, Erith, Kent.

FOLKESTONE.—Wanted, a reliable, competent Assistant for Light Retail and Dispensing business; qualified or unqualified; ineligible; outdoors; permanency; no Sunday duty; no Insurance Dispensing. State age, experience, and salary required to J. J. Giles & Son, Chemists, Folkestone.

HASTINGS.—Two lady Assistants required in high-class Retail and Dispensing Pharmacy. Apply, stating experience, salary, and with reference, to Neve & Co. (Proprietor, Harold E. Skyrme), 12 Wellington Place, Hastings.

LANCASHIRE.—Permanent and progressive berth open for steady and reliable unqualified Assistant; preference given to one who has had some experience in Optics (fitting particularly). State age, whether rejected or discharged from Army, and when at liberty, "P. D." (105/261), Office of this Paper.

LONDON.—Registered Chemist required at once by Executors; very light work; suit elderly or retired man; easy hours could be arranged; temporary, pending settlement, with possible permanency. Please give particulars as to salary (must be moderate), etc., to "Cover" (106/17), Office of this Paper.

LONDON SUBURB.—Wanted for beginning of October, an experienced and reliable Assistant for N.H.I. Dispensing and quick Cash Retail; must be well recommended. Apply to Davy, Chemist, Edmonton, N.

LONDON (Suburb).—Assistant; ineligible; whole or part-time; outdoors; good-class Retail, Dispensing, and Photographic. State usual particulars, salary expected, and when disengaged. Apply Matthews, Cash Chemists, Ltd., 69 Golder's Green Road, N.W. 4.

LONDON, N.—Qualified Manager wanted for business in artisan district; N.H.I. Dispensing; comfortable permanency for capable man; liberal interest in the profits. Apply 105/26, Office of this Paper.

LONDON, N.—Qualified Manager required for Light Retail and N.H.I. Dispensing business; splendid opportunity for capable man willing to take his coat off and apply himself energetically; share of the profits offered. State age, whether married, and when at liberty, "H. D." (105/262), Office of this Paper.

LONDON, N.—Elderly qualified Chemist required; comfortable permanency. State age, salary required, and when at liberty, "E. R." (105/263), Office of this Paper.

LONDON, S.W.—Assistant for Counter and Dispensing; no N.H.I.; lady or gentleman with experience immediately. Full particulars to 149/69, Office of this Paper.

LONDON, S.W.—Lady Assistant required to assist in Dispensary work; accustomed to weighing powders and filling cachets, etc. Apply, stating full particulars of past experience and salary required, etc., to the Manager, L. J., Army and Navy Stores, 105 Victoria Street, S.W. 1.


LONDON, S.W.—Wanted, a smart Assistant for Counter, with good knowledge of Patents, Perfumery, and Drugs; short hours; no Sunday or Bank-holiday duty. Apply Manager, Francis & Son, Ltd., 448 Brixton Road, S.W. 9.

LONDON, S.W.—Part-time Assistant wanted, lady or gentleman, chiefly for Dispensing; light work, and free afternoons except Saturdays. Apply to Foster & Dallas, 1 Lavender Hill, S.W.

RESULTS

OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK SEP 29 1917

NATURE OF ADVT.	REPLIES
LADY DISPENSER	16
ASSISTT	15
LOCUM	12
MANAGER	11
QUAL. ASSISTT	9



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

LONDON, S.W.—Wanted, a lady Assistant who has had some experience in a Pharmacy. Apply to A. J. Phillips, 156 Cromwell Road, South Kensington, S.W. 7.

LONDON, W.—A reliable and experienced Assistant wanted for a good-class Retail and Dispensing business; unqualified; outdoors. State usual particulars, salary required, etc., to "Vertex," c/o 22 Graham Street, City Road.

LONDON, W.—Assistant wanted; one used to good-class Counter work and Dispensing; hours can be arranged; salary £4. Write 107/8, Office of this Paper.

LONDON, W.—Qualified Assistant, lady or gentleman (ineligible), mainly for first-class Dispensing and making preparations. Apply 149/68, Office of this Paper.

MIDDLESBROUGH.—Messrs. Middleton & Co., Ltd., require in November or earlier an unqualified outdoor Assistant (lady or gentleman); Dispensing, mainly N.H.I., and quick Cash Retail experience; hours 8.30 to 7.30; no Sunday duty. Please state salary required, with other particulars, to Manager, 201 Linthorpe Road, Middlesbrough.

MOUNTAIN ASH.—Wanted, unqualified Assistant (outdoors); brisk Light Retail, with N.H.I. Dispensing. Jones, Granville Terrace, Gwynaber.

NEWCASTLE-ON-TYNE.—Wanted, qualified Assistant (ineligible or lady); accustomed to high-class Retail and Dispensing; indoor or outdoor. Applicants with Hall certificate would be considered. Apply, giving full particulars as to age, experience, and salary, to Brady & Martin, Ltd., 29 Mosley Street, Newcastle-on-Tyne.

NORTH LONDON.—Wanted, qualified lady or gentleman as Manager. Also unqualified lady or gentleman; a good chance of progress; if disengaged shall be glad to see them as early as possible, as the position is open now. Apply Meacher, 61, Stroud Green Road, London, N.

NORTH WALES.—Lady or gentleman required (outdoors); qualification not essential, to assist and occasionally take charge of Light Retail business; no N.H.I.; Apprentice kept; hours 8.30 to 7; no Sunday or evening duty; delightful neighbourhood. Full particulars, experience, age, salary, etc., to E. D. Jones, Medical Hall, Llangollen.

PLYMOUTH.—Competent Assistant Required; good all-round man; outdoors; easy hours; no Sunday duty. Apply, with full particulars, to W. F. Goodwin, Chemist, 20 Cornwall Street, Plymouth.

SITTINGBOURNE.—Lady Assistant for Light Retail and Dispensing; with or without Hall qualification; outdoors; short hours. J. E. French, M.P.S., F.I.O., 128 High Street, Sittingbourne.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTH WALES.—Qualified Manager wanted immediately for Branch Pharmacy; good salary and commission to energetic man; must be ineligible for the Army; Welsh speaking. Griffiths & Co., Chemists, Pontardawe, Glam.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed o/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETURNING PHOTOS, Etc.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

SOUTHSEA.—Unqualified Assistant required; good experience Dispensing, Counter, Photographic; ineligible. State salary required (indoors), references, etc., first letter, to Cruse & Co., Ltd., The Strand, Southsea.

WORKS, WEST RIDING.—Young lady Assistant required for vacancy in a progressive Pharmacy; state age, salary required, and when at liberty; applicants must have had good Dispensing experience and be useful at the Counter. "W. C. M." (105/260), Office of this Paper.

A N Assistant for Dispensing and General work; moderate hours; easy berth. Please send particulars, salary, etc., to H., 7a Wyndham Place, W. 1. "Apprentice also required."

A SSISTANT; lady or gentleman; well up in Dispensing first-class business; two Assistants kept; reside on premises or otherwise. Apply, stating qualification, if any, age, experience, salary required, Sharman, Chemist, Northwood.

A SSISTANT wanted November 1; easy hours; no Sunday or after hour duty; outdoors; pleasant town. Please give particulars of age, and height and salary required, to Elliott, Chemist, Evesham.

D ISPENSARY Stockkeeper.—The Army and Navy Stores, 105 Victoria Street, S.W. 1, have vacancy for the above; hours of work approximately 8.45 to 6.15. Apply, stating full particulars of past experience and salary required, to the Manager, Drug Department.

E VENINGS; qualified man; alternate Thursday, Sunday, and two or three other evenings about 1½ to 2 hours. Apply Goodall, 66 Lower Richmond Road, Putney.

J UNIOR or part-time Assistant wanted soon for a good-class business; it is near several schools of Pharmacy, and time can be arranged to attend Lectures, etc. Apply K. Banbury, 186 Lavender Hill, S.W. 11.

L ABORATORY Assistant, experienced in Urine Analysis and Record. Apply to Mr. Marshall, John Bell & Croydon, 50 Wigmore Street.

L ADY; Dispensing department, and assist occasionally at Counter; hours 9 to 7 p.m., Thursdays 1 p.m., Saturdays 8.30 p.m.; tea provided; good experience to be gained. State salary, height, and where trained, enclose photo if possible, G. T. W. Newsholme, Ltd., 27 High Street, Sheffield.

L OCUM lady Dispenser required immediately for two or three weeks; must be experienced in the routine of Surgery work; country town near London; salary 3 guineas weekly. Send full particulars to 106/32, Office of this Paper.

M ESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

Q UALIFIED Working Manager wanted for a good Mixed business and N.H.I. Dispensing; a quick, clean worker; good references required. Full particulars first letter, in confidence; comfortable and permanent berth to right man; salary £3 10s. and 10s. War bonus; North Staffs. Apply 101/34, Office of this Paper.

Q UALIFIED Manager (lady or gentleman) required for small business in E.C. district. Apply, stating salary required and usual particulars to 107/22, Office of this Paper.

R EYNOLDS & BRANSON, LTD. (13 Briggate, Leeds), require a Junior of experience for Retail and Dispensing. Apply as above, giving details as to age, experience, etc., and salary required.

S URGICAL Instrument Business Assistant for front shop. Address, stating age, wages expected, and duties accustomed to, Box "Surgical," Lee & Nightingale, Liverpool.

T HOMPSON & CAPPER have a vacancy for a qualified Assistant at one of their Yorkshire branches. Apply, with full particulars and photograph, Manesty Buildings, College Lane, Liverpool.

W ANTED, part-time lady Dispenser (qualified); Monday and Tuesday afternoon and evening; Thursday and Friday afternoon only. Tuberculosis Dispensary, 108 Grange Road, Bermondsey. Apply to Medical Officer.

W ANTED, part-time Assistant one evening a week; lady or gentleman; unqualified or Hall. Apply S. S., 436 High Road, Streatham, S.W.

WANTED, reliable Assistant (male or female) to manage Country Branch; easy hours; light Retail. Apply, stating particulars, Wandless, 83 Duke Street, Whitehaven.

WANTED (immediately), lady Clerk; accustomed to Cost prices; one with previous experience in Chemist's business preferred. Apply, giving full particulars of past experience and salary required, to L. J., Army and Navy Stores, Ltd., 105 Victoria Street, S.W. 1.

WANTED at once, qualified Manager; Light Retail and Dispensing; staff kept. Applications to J. E. French, Honorary Secretary, Kent Association of Pharmacists, 128 High Street, Sittinbourne.

WANTED, Branch Manager; accustomed to good-class Retail and Dispensing, with Photographs. Kindly state age, height, salary required, with particulars of experience, to "Proprietor," 8 Station Road, Westgate-on-Sea.

WANTED, Junior Assistant for Front Counter. Apply, with full particulars, to Hunt & Co., Winchester.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

A LABORATORY Assistant is required by firm of Wholesale Chemists manufacturing specialities; ineligible. State age, wages expected, experience, etc., to "Quality," c/o "The Daily Telegraph," Fleet Street, E.C.

DRUG Traveller Wanted for Liverpool. 147/10, Office of this Paper.

EXPERIENCED practical Pharmacist for Manufacturing high-class Pharmaceutical Speciality in London. State age, experience, and salary required to "Oleum" (149/44), Office of this Paper.

MANUFACTURING FOOD PRODUCTS.

FIRM, owning large Factory with every requisite for Food production, including Ovens, Drying-rooms, etc., is open to Manufacture for other firms. Apply 149/31, Office of this Paper.

JOHN RICHARDSON & CO., LTD., Leicester, have a vacancy for a thoroughly efficient Costing and Invoice Clerk; must have a good knowledge of the Drug trade generally. Also an intelligent man, accustomed to handling drugs in bulk, as Assistant Stockkeeper. Apply, by letter, giving full particulars and stating salary.

LABORATORY Assistant, experienced in Urine Analysis and Record. Apply Mr. Marshall, John Bell & Croydon, 50 Wigmore Street.

PRACTICAL man for Toilet Speciality department; must be experienced in the manufacture of Vanishing Creams and other Toilet preparations. State age, wages required, and full details of experience. Apply 148/68, Office of this Paper.

QUALIFIED gentleman required; experienced, systematic; must be able to control and arrange work in a large Dispensing business where eight to ten others are engaged. Good salary and hours for the right man. Apply 101/32, Office of this Paper.

REQUIRED by London Wholesale Druggist, a Warehouse Assistant (male or female) accustomed to checking orders and parcels-post packing; state experience and wages required. Apply 106/8, Office of this Paper.

SALES and Advertising Manager, skilled in pushing high-class Proprietary medicines, wanted at once by London firm of Wholesale Chemists; knowledge of Therapeutics desirable, and a qualified man preferred; must be ineligible; permanent position. Apply, giving age, experience, and salary required, to "Cantab.," c/o "The Daily Telegraph," Fleet Street, E.C.

SMART Chemist wanted, with good knowledge of Therapeutics, for Advertising department in firm of Wholesale Manufacturing Chemists; good salary to competent man. Apply 148/67, Office of this Paper.

TRAVELLERS wanted at once for well-advertised Patent medicine as Side-line on good commission; must have good connection amongst Chemists. Apply, by letter, Box Z. 12, c/o Pool's Advertising Service, 180 Fleet Street, E.C. 4.

WANTED, skilled Chemist, preferably with Works experience, for Analysis and Investigation in Cements and Insulation materials; permanent engagement and liberal salary to suitable applicant (either male or female). Thos. Anderson, Ltd., 54 Derby Road, Liverpool.

WANTED, intelligent man; ineligible; used to handling Essential Oils. Write, full particulars of age, experience, and salary required, to "Essential" (148/53), Office of this Paper.

WANTED, capable Manager of Druggist Sales Department, Wholesale; must be willing to interview and travel. Write, with full particulars in the first instance, giving career, terms, etc., to A. T. D., c/o G. Street & Co., 8 Serle Street, Lincoln's Inn, W.C. 2.

WANTED at Once.—London house requires Laboratory Assistants. State age, experience, and salary required, to "Galenicals" (149/720), Office of this Paper.

WANTED at once, Junior Clerk for Despatch department in a Wholesale London house. State age, previous experience, and salary required, to "Export" (149/72), Office of this Paper.

WAREHOUSEMAN required, with experience of packing and despatching fine and heavy Chemicals, Stockkeeping, etc.; good wages, and permanency for suitable man over military age; London district. Particulars to 144/62, Office of this Paper.

WAREHOUSEMAN required, with experience of receiving Goods, Stockkeeping, etc.; permanency for suitable man. State age, wage, and experience, Wigglesworth, Ltd., West-houghton, Lancs.

WHOLESALE Druggists require experienced Typist; also one to act as Junior. Write, giving full particulars of experience and salary required, to Devon Wharf, Emmott Street, Mile End, E.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

See Notice on Front Page of this Supplement.

3s. 6d. for 50 words or less; **6d.** for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

PARIS.—Assistant; ineligible; knowledge of French preferred. Age, references, and salary required, to Parilond, 5 rue de la Paix, Paris.

SOUTH AMERICA.—Representative (experienced) required by important manufacturers of Drugs, Fine Chemicals, and Surgical Dressings. Apply 145/30, Office of this Paper.

SITUATIONS WANTED.

See Notice on Front Page of this Supplement.

1s. for 12 words or less; **6d.** for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]

RETAIL.

ADVERTISER, finishing season engagement, shortly open for locum work; unregistered; discharged; fully trained. "Chemicus," Luda House, High Street, Skegness.

AS Manager; qualified; ineligible; City preferred; long and varied experience. Apply 106/22, Office of this Paper.

ASSISTANT; age 30; unqualified; ineligible; 10 years' experience; Manchester or Liverpool district preferred. Apply 97/23, Office of this Paper.

ASSISTANT; unqualified; married; age 23; tall, smart; good experience and references; London only; South-West preferred. "Disengaged," 129 Geraldine Road, Wandsworth.

ASSISTANT, Locum, requires post immediately; ineligible. Iris, 43 High Street, Southampton.

ASSISTANT (C 3) requires berth in London; N.H.L. work preferred; good experience; excellent references. "Unqualified," 41 Frithville Gardens, W. 12.

ASSISTANT, unqualified, rejected, experienced and reliable, disengaged; London only. "Statim," 164 Clapham Road, Clapham.

ASSISTANT or Branch Manager; mixed trade; good all-round experience; age 49 years; situation out of London preferred; married. Drugs, 57 Lichfield Road, Bow, London, E.

BRISTOL.—Lady requires part-time work; experienced; Hall qualification. Griffiths, 38 Alfred Hill.

CERTIFICATED Dispenser, many years' experience, desires post in Hospital or with Chemist. Apply 106/35, Office of this Paper.

CHEMISTS requiring qualified Manager may obtain service of middle-aged Pharmacist with wide experience. Send full details, "Wextra," 7 Avenue Road, Wallington, Surrey.

DISPENSER (woman) desires post with Chemist; usual light duties and Counter; in or near Bournemouth; disengaged November. Apply 104/25, Office of this Paper.

DISPENSER (Hall); discharged soldier; Doctor or Institution; preferably near Bristol. Apply 102/14, Office of this Paper.

ELDERLY, active, qualified Chemist desires post with Doctor, Institution, or Managership; highest references; South or Western Counties. Apply 105/33, Office of this Paper.

ELDERLY Locum for two or three weeks; experienced Prescriber, Counterman, etc.; abstainer; references (unregistered). "Prompt," 19 Chapel Street, Uxbridge.

ELDERLY qualified disengaged; locum or otherwise. Exper., 44 Strathairn, Cardiff.

LADY Dispenser (Hall), Hospital and private experience, desires re-engagement in London; Bookkeeping. Apply 102/38, Office of this Paper.

LADY Dispenser, experienced, part qualified, seeks post; South Coast, Brighton, or Bournemouth preferred; Doctor, Chemist, or Hospital. Apply 105/3, Office of this Paper.

LADY Dispenser, qualified, experienced, desires post with Doctor or in Military Hospital. Apply 104/31, Office of this Paper.

LADY (Minor) seeks post as Dispenser in London, either in business or Institution. Apply 104/29, Office of this Paper.

LADY Dispenser (qualified) seeks post with a Chemist; London or near; outdoors. N. Brodie, 15 Sewardstone Road, Waltham Abbey.

LADY Dispenser seeks engagement with Doctor or Chemist; nearly two years' experience; required time off for study. Parker, Southside, Holbrook, near Ipswich.

LADY Dispenser (Hall), well recommended, seeks post with Doctor or Institution; Bookkeeping; First Aid and Nursing certificates; perfect French. Bailey, 55 Holdenhurst Avenue, N. Finchley.

LADY Dispenser and Bookkeeper (experienced) desires post, locum or permanent, with Doctor. Apply 107/28, Office of this Paper.

LADY Dispenser, Hall qualification, two years' high-class West End experience, desires engagement; Hospital or public Dispensary preferred. Apply 106/34, Office of this Paper.

LADY Dispenser (Hall) requires post Hospital, Doctor, or Chemist; some experience with latter. Apply P., 6 Park Hill, Ealing, W. 5.

LADY, capable, experienced all branches, could manage with qualified Dispenser; disengaged now. Apply 107/17, Office of this Paper.

LOCUM or permanency; London and provincial experience. Harries, 24 Kinaraig Street, Cardiff.

LOCUM, experienced Dispensing, Photography, Optics, disengaged between October 8 and 22; near London or Eastern Counties preferred. "Qualified" (145/14), Office of this Paper.

LOCUM, 30 years' wide experience Hospital, Pharmaceutical, vacant September 3 forward. M. Smith, Chemist (Manchester), first, present address till October 13th, c/o Wood, Chemist, Pontypool, Mon.; second, 104 Katherine Road, East Ham, E. 6.

LONDON.—As Manager; permanency; qualified; over military age; tall, energetic, and healthy; Scotchman; outdoors; now disengaged; been in business; excellent references. "Hexamine," 17 Gladstone Park Gardens, Cricklewood.

MANAGER or RESPONSIBLE POST; PARTNERSHIP or with view to succession entertained. Qualified Chemist with wide London and provincial Managerial experience, desires change. Populous seaside town or London, and preferably with good house attached. Advertiser guarantees full value in services for adequate remuneration; age 46. Tall, good appearance, and intelligent Counterman. To save unnecessary correspondence, please reply in fullest detail. All replies treated as private and confidential. "Ferox" (104/28), Office of this Paper.

MANAGER, with view to succession or interest; 46; first-class experience Dispensing, Retail, Photography; excellent references. Full particulars (please), Pharmacist, Glenlyn, Birchington.

MANAGER; 41; total exemption; disengaged; qualified; married; good all-round business man; London district. "Edmund," 2a Westmoreland Road, S.E. 17.

MANAGER; qualified; 42; married; abstainer; first-class experience; thoroughly competent. Brown, 269 Wilmslow Road, Fallowfield, Manchester.

MANAGER or Senior (qualified), West-End experience, requires change. Apply 107/7, Office of this Paper.

NOTTINGHAM.—Lady Dispenser; disengaged; experienced; part qualified. Apply 107/15, Office of this Paper.

PART-TIME Assistant (unqualified); experienced Front Counter, Dispensing, Prescription Copying; disengaged now. Apply 107/170, Office of this Paper.

PHARMACIST; 30; C 3; Manager; many years' experience in all branches of Pharmacy; good Prescriber, and has business capabilities; Manchester or district. Apply 107/1, Office of this Paper.

PHARMACIST and Optician (F.S.M.C.) open shortly for engagement as Manager; over military age; good all-round experience; Manchester district preferred. Apply 145/40, Office of this Paper.

QUALIFIED; Branch, Dispensing, or Locum; over military age; 30 years' experience; just finished twelve months' engagement seaside as Branch Manager. 103/24, Office of this Paper.

QUALIFIED; Manager, Dispenser; 49. Taylor, 23 Skinner Street, Clerkenwell, E.C. 1.

QUALIFIED Chemist over military age, desires permanent post as Manager, preferably to live over; disengaged in a month. Apply "I. J. K." (107/240), Office of this Paper.

SENIOR or Manager; highly recommended and experienced; height 5 ft. 9 in.; aged 35; B 3. Ball, 4 Cambridge Villas, Chard, Som.

UNQUALIFIED; good Dispenser, Counter, Extractor; Midlands preferred; ineligible. "Ferrum" (103/8), Office of this Paper.

UNQUALIFIED; C3; 23; eight years' experience Counter Dispensing and Photography. State salary and hours (disengaged about November 1st) to 107/13, Office of this Paper.

To Photographic Dealers who are Overstocked

Send us **CAMERAS, APPARATUS & SUPPLIES.**

We pay Cash by return.

We offer TWO-THIRDS LIST PRICE for

No. 0 and No. 1 Brownies; No. 2 Folding Autographic Brownies; No. 1 Junior Kodaks with R.R. and Anastigmat lenses; Vest Pocket Kodaks with R.R. and Anastigmat lenses; Watch Pocket Carbiners, Vest Pocket Kodak and Brownie Enlargers, Kodak Daylight Developing Tank, and Spools for Vest Pocket Kodaks and Brownies.

Above must be in new condition and spools fresh.

Also, we give relatively high prices for all classes of Photographic Goods. Folding Cameras of all descriptions, Stand Cameras, and Apparatus of all kinds.

Pack up a box of goods you do not require, send along to us, and we will remit by return. If goods are other than above, we will acknowledge at once, and make you our best offer. If not accepted, goods will be sent back, carriage paid, at once.

We do not quibble, and we do our business in a business-like way!

NOTE ONLY ADDRESS:

WATSONS, THE CAMERA HOUSE, 84 High Street, SHEFFIELD. Tel. No. 27.

WHOLESALE.

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ENERGETIC Representative, 15 years' connection, seeks Agency for British or American Medical Specialty or Proprietary articles. Apply "Northerner" (106/19), Office of this Paper.

PERFUMER and expert in Toilet Preparations seeks berth with good London firm. Apply 106/10, Office of this Paper.

QUALIFIED gentleman, C 3; ideas, initiative; influential Salesman; keen Buyer; used managing big business; permanency if good salary, prospects. 105/4, Office of this Paper.

WANTED in Warehouse, situation; many years' experience in Patents, Druggist Sundries, etc.; accurate Checker, also Dispatch department; over military age; town or country; first-class references. Apply 106/31, Office of this Paper.

YOUNG Chemist (ineligible); 10 years' experience in Pharmaceutical, Perfumery, Galenicals, and Chemicals, unqualified, capable Supervisor, desires permanency. Apply 106/33, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies, or elsewhere abroad.

PHARMACIEN, diplômé, Anglois, parlant bien Français et des langues, cherche place en France (Havre ou Grande Ville, Normandie). Apply "Pharmacien" (107/24), Office of this Paper.

MISCELLANEOUS.

See Notice on Front Page of this Supplement.

DRAGON'S Blood (powder), good quality; about 1 cwt. offered at 4s. lb.; sample on application. Apply Raines & Co., Ltd., Ebor Works, Stockton-on-Tees.

SHOWCASES AND FITTINGS.—Handsome Oak Dispensing Screen and Counter, large Central Mirror, and Mirror-lined Showcases, £20 complete; 10' Mahogany and Plate-glass Serving Counter, £14 10s.; elegant Perfumery and Tooth-brush Case combined, unique design, £7 10s. Hundreds of other bargains. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

Developing. Printing. Enlarging

Developing Spools, 6 Ex., 6d.; 12 Ex., 1/-; V.P.K., 6d.
Prints up to and including 4-plate 1d. each.
ENLARGEMENTS. LIST FREE.
Prompt dispatch. Trade discount, 25 per cent.
Postage extra.

MARTIN, Chemist, SOUTHAMPTON.

SAFETY RAZOR BLADES RE-SHARPENED

AND MADE EQUAL TO NEW.

Any style 6d. per dozen, and returned post free same day.

G. COVERDALE & SONS,
Chemists, 20 Parliament Street, YORK.

PAPER

White Demy from 9s; Yellow Wove, 13/6; Brown, White and Coloured Tissues, Small Hands (Whitey-brown) from 6s.; Seiditz Blue, 9s.; English Krafts and Browns, String, 8 oz. balls 106 per dozen. Stout Parcel String, 10 oz. balls 15s. per doz. Samples on application, only if weight of ream is given or sample sent to match.

D. W. BULL,

4 Churchill Road, Hemerton, E. 9.

Special Offer of Dispensing Flats

Pale green tinted, plain or graduated.

2 oz. @ 11/6; 3 oz. & 4 oz. @ 12/6; 6 oz. & 8 oz. @ 14/9; 10 oz. & 12 oz. @ 20/- per gross. Carr. paid on 6 gross lots within 200 miles of Doncaster. Cash with order only, deliveries usually made within 14 days. **HIND, Buckingham Road, DONCASTER.**

8/6 Jay Mack's Ledger 10/6

3 Years 4 Years
4 Columns 5 Columns

On appro. on receipt of cheque. 6d. Booking Fee plus Post if returned.

Mack-Ivor, Hightown P.O., Crewe.	Ayrtons, Evans, Bleasdale, Ucal Raimes (Edin'g)	Australia: Elliotts, C.D.A.	S. Africa: Border Drug, Gardners.
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THERE IS MONEY

to be made in the Photographic Department of your business, but the Developing, &c., must be **WELL** and **QUICKLY** done. We are experts, and return all work promptly. We pay return postage on all orders of 2/- or over. Send for our list and give us a trial.

STEAD & CO., Photographic Experts, Duke St., BRIGHTON.

Near the British Museum.

KINGSLEY HOTEL

HART ST., BLOOMSBURY SQUARE, LONDON, W.C. 1.

Opposite the British Museum.

THACKERAY HOTEL

GREAT RUSSELL STREET, LONDON, W.C. 1.

These well-appointed and commodious TEMPERANCE HOTELS have Passenger Lifts, Bath Rooms on every floor. Lounges and spacious Dining, Drawing, Writing, Reading, Billiard and Smoking Rooms. Perfect Sanitation. Fireproof Floors. Telephones. Night Porters.

BEDROOM, BREAKFAST, ATTENDANCE AND BATH, PER NIGHT PER PERSON 6/6

Full Tariff and Testimonials on application.

Telegraphic Addresses: Kingsley Hotel, Thackeray Hotel. Addresses: Bookcraft, Westcent, London; Thackeray, Westcent, London. Telephones: Museum 1232, Museum 1230.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 12 ounce. 6 and 8 ounce.

WHITE PHIALS, plain or teaspoons.

1 ounce. 1 1/2 ounce.

1 " 2 " BLUE LOTION BOTTLES, all sizes.

CORKS. Superior Quality. No advance in price.

5 and 8 ounce ... 1s. per gross, in 6 gross bags.

Vials ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 Midland Road, St. Pancras, London, N.W. 1,
or ISLINGTON BOTTLE COMPANY,

7 New Inn Yard, Tottenham Court Road, London, W. 1.

Orders sent to either establishment have attention.
Established 100 Years.

Bankers: London County and Westminster Bank, Bloomsbury Branch.

Lowest
Market
Prices
Charged.

"NATIONAL" Manifolding Autographic Register



This register provides the quickest and simplest method of obtaining a triple written detailed record.

Price **£5 10s.**

It affords a triplicate entering system at one writing. One entry remains in the register safely under lock and key, while the original slip may be given to customer, and the duplicate filed by cashier or assistant.

For all kinds of transactions, this register furnishes a cheap and safe system of written records, especially for credit and C. O. D. sales.

Its use will save much time and worry. No hunting for entering books or carbons, no danger of triplicate records not being made.

Write for further particulars to:

The National Cash Register Co., Ltd.

225 TOTTENHAM COURT ROAD, LONDON, W. 1.

Telephone: Museum 1680.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

DRUGS AND CHEMICALS.

CASH offer for 51j atropin sulph. Croft, Chemist, Seunthorpe, Lincs.

WHAT offers? One ounce atropine sulphate; original bottle. Apply 106/14, Office of this Paper.

MISCELLANEOUS.

MAW'S Parex Water-bed; 36 x 36; only used a few days; as new; cost 58s.; nearest offer. J. Thornton, M.P.S., 4 Stratford Road, Kensington, W.

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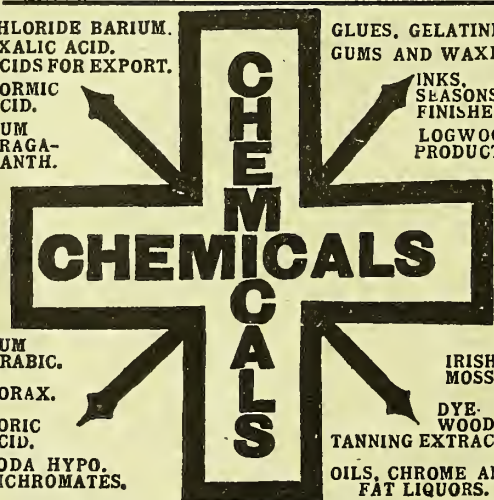
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Fol. Sennæ Tinnev., 1 cwt. @ 8½d. lb.; 7 lbs. @ 9½d. lb.; English Ground, 56 lbs. @ 10d. lb.; 7 lbs. @ 1/- lb.
Formaldehyde, 40%, 4 cwt. barrels @ cwt.; 7 lbs. @ 1/5 lb.
Fuller's Earth, fine powder or lump, 5 cwt. @ 10/- cwt.; 1 cwt. @ 11/-.

Galla Cærul. Pulv., 7 lbs. @ 2/- lb.
Gamboge, English Ground, 1 lb. @ 9/6 lb.
Ginger, English Ground, 1 cwt. @ £5/- cwt.; 7 lbs. @ 11d. lb.

Gingerine, Extra, 5 lbs. @ 13/- lb.; 1 lb. @ 13/6.
Glycerin, Opt. D.D., 1.260 P.B., @ cwt.
***Glycerin, Acid. Boric, P.B.**, 6 lbs. @ lb.
" **Acid. Carbolic, P.B.**, 6 lbs. @ lb.
" **Acid. Tannic, P.B.**, 6 lbs. @ lb.
" **Belladonna, B.P.C.**, 6 lbs. @ lb.; 1 lb. @ lb.

***Glycerin, Boracic, P.B.**, 6 lbs. @ lb.
" **Pepsin, Acid, P.B.**, 1 lb. @ lb.
" **Plumbi Subacet., P.B.**, 6 lbs. @ lb.

Gualacol Carb., 1 lb. @ 16/- lb.
Gualacol, pure, 1 lb. @ 13/- lb.
Gum Acacia sorted, 3 cwt. @ 92/6 cwt.; 1 cwt. @ 95/- cwt.; 7 lbs. @ 1/- lb.; English Ground Powder, No. 1, 1 cwt. @ 150/- cwt.; 7 lbs. @ 1/7 lb.; No. 2, 1 cwt. @ cwt.; 7 lbs. @ 1/3 lb.

Gum Benzoin, Sumatra, 84 lbs. @ 1/10 lb.; 7 lbs. @ 2/- lb.

Gum Catechu Nig., English Ground, 1 cwt. @ 105/- cwt.; 14 lbs. @ 1/- lb.

Gum Gualaci, 1 cwt. @ lb.; 7 lbs. @ 4/6 lb.

Gum Juniper, 14 lbs. @ 1/1 lb.

Gum Thus Elect., 2½ cwt. @ 50/- cwt.; 28 lbs. @ 54/- cwt.

Gum Tragac. Elect., English Ground, 7 lbs. @ 10/- lb.; 1 lb. @ 11/- lb.

***Heading (Frotting Ess.)**, 5 lbs. @ 1/9 lb.
Hellotropine, 1 lb. @ 30/- lb.

Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 52/6 cwt.

Hexamethylenetetramine, 7 lbs. @ 4/9 lb.; 1 lb. @ 5/- lb.

Honey, Jamaica, 28 lbs. @ 1/1 lb.

Hydargyrum, P.B., 10 lbs. @ 7/6 lb.; 1 lb. @ 7/10 lb.; Ammon., 28 lbs. @ 8/4 lb.; c.

Creta, 28 lbs. @ 2/10 lb.; Iodid. Rub. 28 lbs. @ 12/8 lb.; Oxid. Rub., 28 lbs. @ 8/4 lb.

Perchlor. Lump, 28 lbs. @ 8/1 lb.; Subchlor. 28 lbs. @ 7/10 lb.; Sulph. c Sulph., 28 lbs. @ 7/4 lb.; 7-lb. quantities 1d. lb. extra.

8-lb. quantities, 2d. lb. extra, 1-lb. quantities, 3d. lb. extra.

Hydroknone, 1 lb. @ 16/- lb.

Ichthyl Ammon. chemical equivalent: Ammon-ichthosulphonas, B.P. Codex, 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.

***Inf. Aurant. Conc.**, 1 to 7, 6 lbs. @ 1/10 lb.

" **Aurant. Comp. Conc.**, 1 to 7, 6 lbs. @ 1/8 lb.

" **Bnebu Conc.**, 1 to 7, 6 lbs. @ 3/1 lb.

" **Calumbæ Conc.**, 1 to 7, 6 lbs. @ 1/4 lb.

" **Caryoph. Conc.**, 1 to 7, 6 lbs. @ 1/5 lb.

" **Cascarilla Conc.**, 1 to 7, 6 lbs. @ 1/7 lb.

" **Cinchonæ Acid**, 1 to 7, 6 lbs. @ 1/11 lb.

" **Gentianæ Conc.**, 1 to 7, 6 lbs. @ 1/4 lb.

" **Quassia Conc.**, 1 to 7, 6 lbs. @ 1/- lb.

" **Rhei Conc.**, 1 to 7, 6 lbs. @ 1/10 lb.

" **Rosa Acid. Conc.**, 1 to 7, 6 lbs. @ 2/11 lb.

" **Senega Conc.**, 1 to 7, 6 lbs. @ 2/10 lb.

" **Valerian Conc.**, 1 to 7, 6 lbs. @ 1/10 lb.

Insect Powder, Opt., English Grd., closed flowers, 7 lbs. @ 3/- lb.; English Ground, closed flowers, 4d. lb. less; Foreign Ground, 28 lbs. @ 1/10 lb.

Iodoform Pulv. B.P., 7 lbs. @ 18/- lb.; 1 lb. @ 18/6 lb.

Iodum, resub. B.P., 7 lbs. @ 14/11 lb.; 1 lb. @ 15/8 lb.

Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.

1 lb. @ 11/- lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

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Lapis Pumicis, fine powder, 2 cwt. @ 16/6 cwt.; 7 lbs. @ 2½d. lb.; lump, 2 cwt. @ 24/- cwt.; 7 lbs. @ 3½d. lb.

Licorice Juice, Sticks, 1 cwt. @ cwt.; 28 lbs. @ lb.; 7 lbs. @ lb.

***Ltn. Aconiti Meth.**, 5 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.

" **Bellad. Meth.**, 5 lbs. @ 8/8 lb.; 1 lb. @ 9/- lb.

" **Campb. P.B.**, 9 lbs. @ 2/7 lb.

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" **Tereb. Acet.**, B.P., 5 lbs. @ 1/3 lb.

Linseed c. Oil, Crushed, 3 cwt. @ 44/- cwt.; 1 cwt. @ 46/- cwt.

***Liq. Ammonii Acetatis Conc.** 1-7, 6 lbs. @ 1/5 lb.; 1 lb. @ 1/9 lb.

" **Ammon. Aromat.**, 6 lbs. @ 11d. lb.

" **Antim. Chlor. Pure**, 8 lbs. @ 10d. lb.

" **Arsenicalis, B.P.**, 7 lbs. @ 5d. lb.; 1 lb. @ 8d. lb.

" **Arsenii Hydrochlor.**, P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.

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" **Copaiba Buchu et Cubeb**, 5 lbs. @ 3/6 lb.; 1 lb. @ 3/9 lb.

" **Easton, p.s.** 1-3, B.P., 1 lb. @ 5/6 lb.

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" **Ferri Iod. p.s.**, 1-7, 1 lb. @ 7/3 lb.

" **Ferri Perchlor. Fort.**, P.B., 7 lbs. @ 6d. lb.

" **Ferri Phosph. Co. p.s.**, 1-7, 7 lbs. @ 1/7 lb.

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" **Iodi Fort, B.P.**, 5 lbs. @ 7/4 lb.

" **Morphinæ Acet. or Hydrochlor.**, P.B., 6 lbs. @ 4/4 lb.

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" **Prunl Virg. p.s.** 1-7, 5 lbs. @ 2/10 lb.

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" **Strychnina Hyd. P.B.**, 6 lbs. @ 2/4 lb.

" **Tolut. pro Syr.** 1-7, 6 lbs. @ 2/- lb.

" **Trinitrini, B.P.**, 1 lb. @ 8/3 lb.

Litbia Carb. P.B., 28 lbs. @ 6/- lb.; 7 lbs. @ 6/3 lb.; 1 lb. @ 6/6 lb.

" **Citras, B.P.**, 28 lbs. @ 6/4 lb.; 7 lbs. @ 6/7 lb.; pulv., 3d. lb. extra.

Lycopodium, 7 lbs. @ 7/9 lb.

Mag. Calc. Levis, 1 lb. @ 3/1 lb.

Mag. Calc. Pond., 7 lbs. @ 3/6 lb.; 1 lb. @ 3/10 lb.

Mag. Carb. Pond., 7 lbs. @ 11d. lb.

Mag. Carb. Levis, 1 cwt. @ ; 7 lbs. @ 1/3 lb.

Mag. Cit. Gran., 28 lbs. @ lb.; 6 lbs. @ 2/1 lb.

Mag. Sulph. fine druggists', B.P., 1 cwt. @ 30/-; 28 lbs. @ 4d. lb.

Manna, Flake, 14 lbs. @ 6/- lb.; 7 lbs. @ 6/2 lb.; 1 lb. @ 6/9 lb.

Menthol, dry white cryst., 60 lbs. @ 14/- lb.; 5 lbs. @ 14/8 lb.

***Mist. Sennæ Comp., B.P.**, 20 lbs. @ 8½d. lb.; 6 lbs. @ 9½d. lb.

Morphinæ Acet. Hydrochlor. or Sulph. Pulv. B.P., 25 oz. @ 16/- oz.; 16 oz. @ 16/6 oz.; 8 oz. @ 16/9 oz.; 1 oz. @ 17/6 oz.; **Pur.**

Præcip. Bimeconate or Tart., 1 oz. @ 21/6 oz.

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Myrrh, Gum, English Ground, 28 lbs. @ 2/2 lb.; 7 lbs. @ 2/6 lb.

Napthalene, Candles, 7 lbs. @ 10½d. lb.

Nux Areca, 1 cwt. @ 55/- cwt.; 7 lbs. @ 7d. lb.; powder, English ground, @ 108/- cwt.; 7 lbs. @ 1/2 lb.

Ol. Amygdal. Ang., B.P., 9 lbs. @ 3/1½ lb.

Ol. Anethi Ang., B.P., 1 lb. @ 30/- lb.

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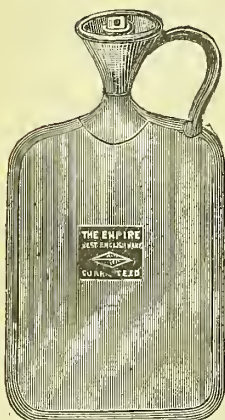
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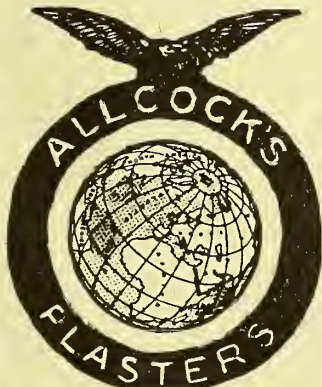
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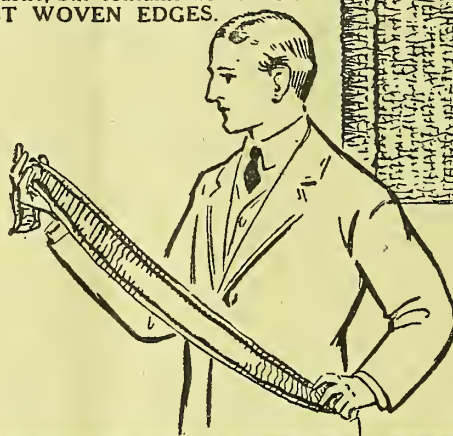
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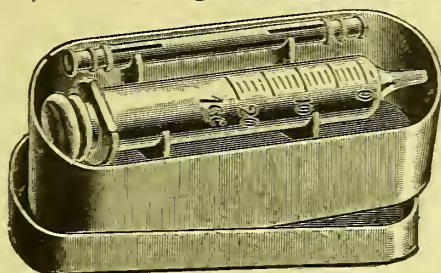
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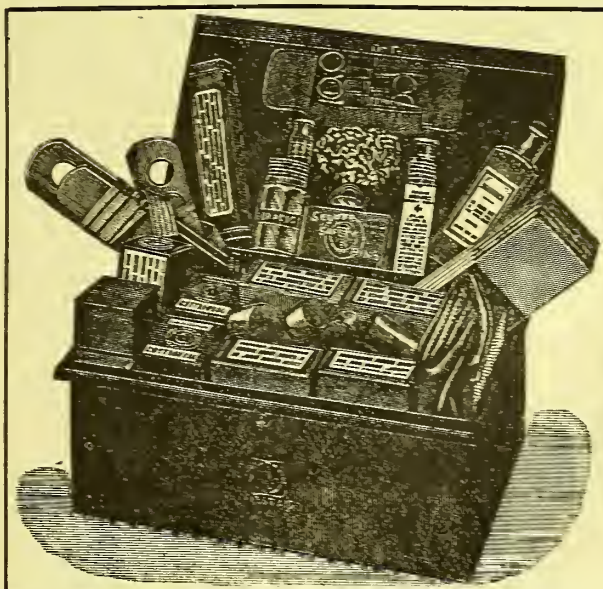
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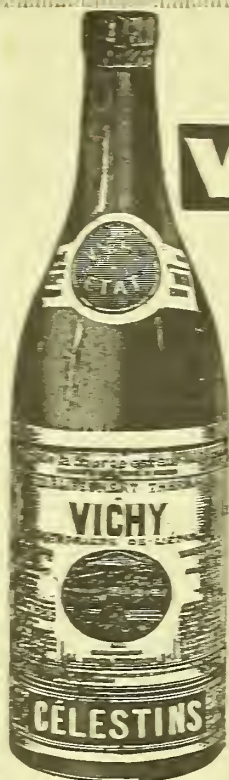
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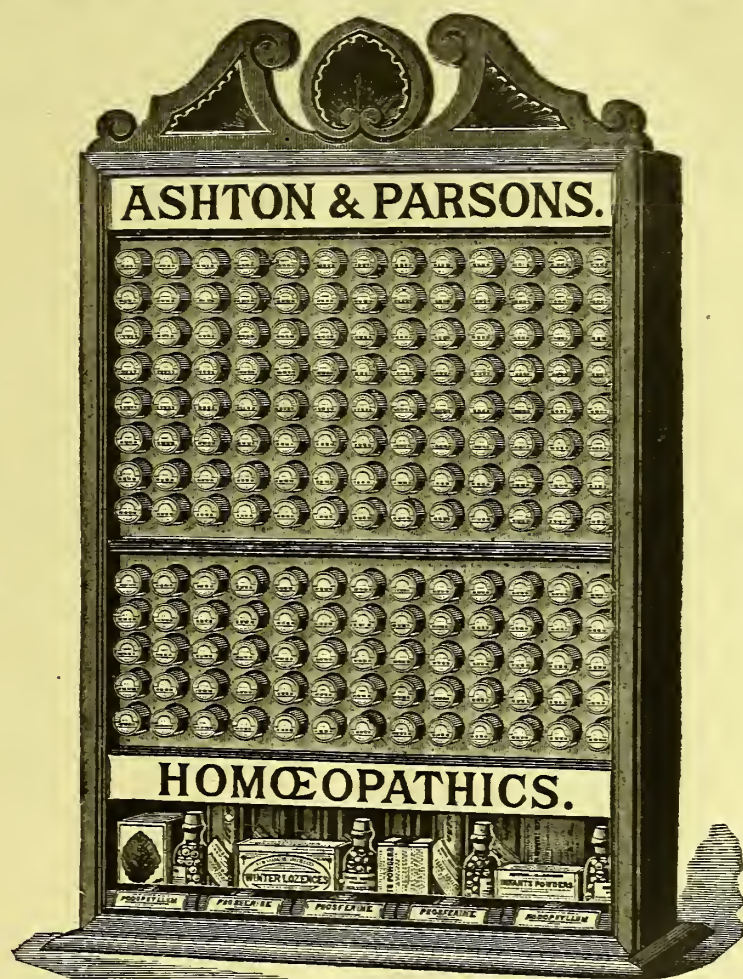
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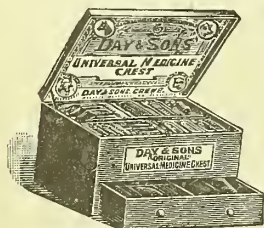
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